

Top 10 Advantages and Disadvantages of Computer System

The invention of the computer is considered to be one of the greatest inventions of all time. The modern computer has changed our daily life to some extent.

A computer is an integral part of human lives. We can not imagine our lives without the use of a computer.

As there are two sides of the coin there are advantages and disadvantages of computer system in points which we are going to discuss in detail.

We will focus on each and every topic briefly.

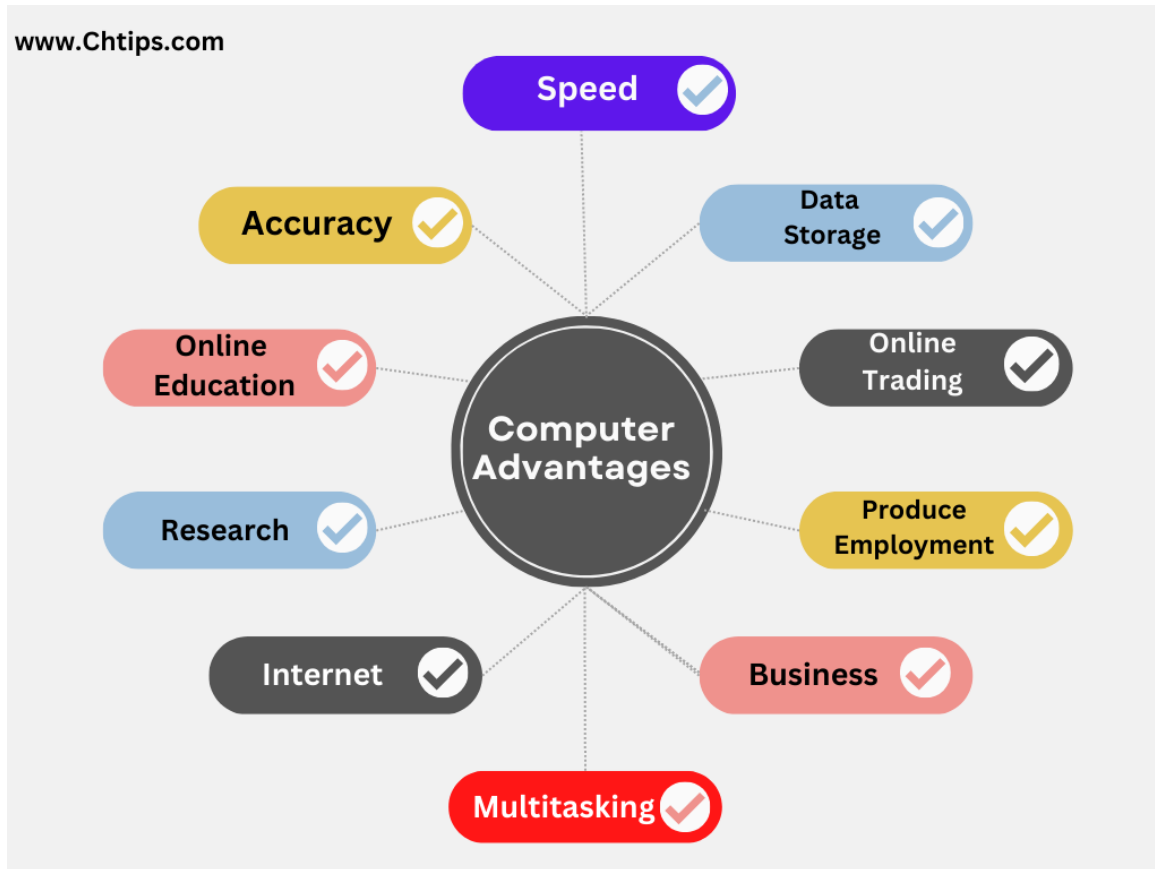
The computer has reached every section of human society, from schools to hospitals businesses organizations, and institutions everywhere we cannot imagine our daily life without the **use of computers**.

The impact of computers on humans is beyond imagination, people use a computer for selling and purchasing goods, online studies (E-Learning) for searching virtually anything on the web, playing games, watching movies, downloading software, for business promotions, railways, airplane tickets, etc.

Almost everything can be done with the help of a computer. The desired output can be received in juts few clicks.

Their uses and study of computers are mandatory for students because of their worldwide use and acceptance.

Computers have made a vital impact on education, students can learn online, and get the required skills and knowledge just sitting at home, the computers have made the distance virtually zero.



Students are getting higher education, certificates, and degrees from reputed institutes before they just dreamed of it computer has made their dreams into reality.

Some of the famous sayings on computer

“I do not fear computers. I fear lack of them.” — *Isaac Asimov*

“The computer was born to solve problems that did not exist before.” — *Bill Gates*

“A computer will do what you tell it to do, but that may be much different from what you had in mind. “

“Computer science really involves the same mindset, particularly artificial intelligence. “

They even had made a significant impact in business, now businessman prefers to use a computer to a huge extent they have made their business life so peaceful that now they can perform multitasking, with almost 100% accuracy,

The advantages of computers in research have helped scientists to solve complex to complex problems with ease before would take long hours or even months to solve.

A Brief Discussion on Advantages of Computer Systems

As there are 2 sides of coins there are Advantages and Disadvantages of Computers

- Speed
- Accuracy
- Stores Huge Amount of Data
- Online Trading
- Online Education | Distance Learning
- Research
- Forecasting Weather, and Predicting Earthquakes, Volcano Eruptions
- Produce Employment
- Internet
- In Business

10 Advantages of Computer

1. Speed

The speed of computers has made a vital impact on human society before some decades computers were just used for the purpose of some numerical calculations,

but nowadays computers are used in virtually every single part of human life.

The modern computer is not just a calculating device anymore with its speed and accuracy it can perform multiple tasks, operations, and complex numerical problems within fractions of seconds.

They can perform about Trillions of instructions per second.

!!!! That's unbelievable Speed!!!!

“It's hardware that makes a machine fast. It's software that makes a fast machine slow.”

People can play songs, perform their documentation work, surf the internet, check emails, and search for their requirements on the internet with great speed and accuracy.

Speed is considered the biggest **advantage of computers** because they can perform all operations at an incredible speed which can reduce the amount of time spent when working manually.

For Example, It can calculate the salaries of Employees within a fraction of a second before it would take long hours when done manually by people.

2. Accuracy

Not only speed but a computer can work with almost 100% accuracy.

This is also one of its advantages, as it can perform complex numerical calculations not only with speed but with unbelievable accuracy.

Imagine you have been given a task to calculate the gross salary of ten thousand employees with a reduction as per the rules and regulations of the organization.

That's not a simple task to calculate the given salaries manually, you are bound to make mistakes and even a small mistake can harm you badly economically.

And now here comes the magic of computers it can perform all the hard work of calculating the salaries of the employees and deduction as per the requirements.

You can derive the results at your fingertips within a fraction of a second when given correct and proper input, with great speed and incredible accuracy.

Hence big organizations with hundreds of employees working for them use computer-generated bills and pay slips.

Even in the Government sector, all the manual calculations had been shifted to computers.

3. Stores Huge Amount of Data

Data storing capabilities of computers these days are "*HUGE*" as compared to previous years.

They can save or store any volume of data or instruction given to them permanently.

Users can recall the data or instructions or information given to them anytime & any place.

The Storing capability of the computer is measured in MB (Mega-Bytes), GB (Giga-Bytes), TB (Tera-Bytes).

Railways use a modern computers for storing their passenger details, routes of trains, and even their employee's details.

India has a population of around 140 cr people, 93% of which have received their aadhaar card issued by the Government of India.

4. Online Trading

People tend to use computers and the internet while purchasing and selling their goods, according to a recent survey more than 50% of people across the world will use computers for their online trading.

Online trading is very simple and time-saving, you have a variety of products to choose from with the best prices, and many websites offer their users a heavy discount.

People are more inclined toward online shopping and trading these days due to their simplicity in use.

5. Online Education | Distance Learning

This is one of the biggest merit or Advantage of computers as students, professionals can get quality education at their fingertips. It is a box full of knowledge and skills.

People use many video-sharing websites for learning, go to any video-sharing website such as *YouTube* and search for your favorite topic you will find tons and tons of videos made by users for educational purposes with your desired language.

The students can learn and acquire skills online at their own convenience and pace these platforms provide students with digital notes in the form of PDF, PPT, Infographics, and video formats.

By the end of 2025, computer education will be a compulsory subject for every student despite his stream and interest.

Many universities and education organizations provide online courses. People are learning new skills, programming languages, cooking, Yoga, meditation, etc

on the internet these days. The invention of Internet is the biggest invention of all time.

6. Research

In research, computers are used as they can solve tedious mathematical and logical calculations with high speed and amazing accuracy.

Scientist prefers the use of computer in their experiments because of their usefulness.

The results of experiments can be stored in a computer hard disk permanently and can be recalled at any time required.

With the use of a computer the speed of research increases, therefore, computers are made an integral part of research and development

7. Forecasting Weather, and Predicting Earthquakes

The Super Computers are used in weather forecasting, predicting earthquakes, and volcano eruptions, scientist predicts the time and hence they can save people from these natural disasters.

Supercomputers are also used in defense, space exploration, nuclear energy, etc.

8. Produce Employment

The computer produces a great number of jobs per year, people don't want to work manually anymore as this is tedious, time-consuming, and inaccurate whereas the computer works with unbelievable accuracy and speed and it is very reliable.

In the last few years, the need for computer professionals has reached a different level, every organization, and every business needs computer experts and professionals in their unit.

The workload of humans has been drastically removed from them thanks to modern-day computers.

9. Internet

The internet has been the most valuable invention of all time.

The evolution of the internet has changed the entire human civilization.

The internet with its connectivity can help you to connect friends, family members, and colleagues living abroad.

You can get a quality education, you can buy or purchase goods, surf the net, play songs, download software, and movies, etc.

This has been considered the greatest *Computer advantage*.

10. Business

People use a computer in business because of its features of storing volumes of data, multitasking, performing complex calculations, and working more efficiently than humans, it doesn't have human traits such as envy, jealousy, tiredness, etc.

The computer has become a huge contributor to the business.

Also, there are some businesses and work that can only be done on a computer or a laptop like Photo editing, Video Editing, Website development, Graphics designing, etc.

So, computers and laptops nowadays come in very handy to do all of the necessary and important stuff at very affordable prices.

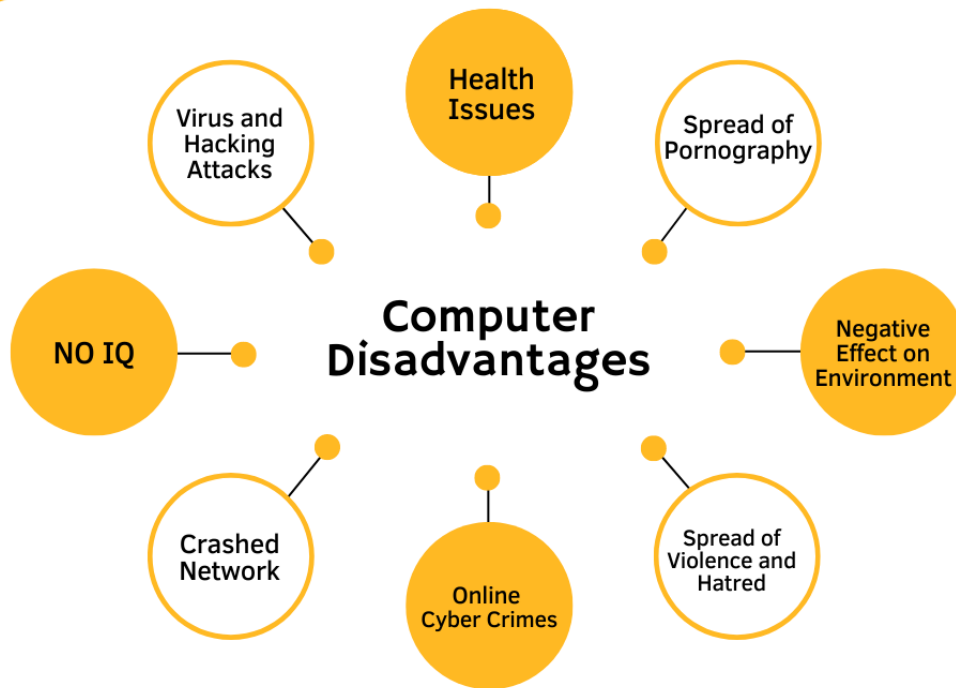
Like one can get a good computer or a laptop for under \$700 and can do any of these things and much more.

Demerits | Disadvantages of Computer Systems

The Following are the computer disadvantages

- Health Issues.
- Spread of Pornography
- Virus and Hacking Attacks
- Computer Can Not Take Their Own Decision NO IQ
- Negative Effect on the Environment
- Crashed Networks
- The computer Can Not Work on Itself
- Spread of Violence and Hatred
- Online Cyber Crimes
- Data and Information violation

10 Disadvantages of Computer



1. Health Issues

The eyes get dry resulting in blurry visions, and the stress in the eye muscles results in weak eyesight.

Computer, when prolonged use, has negative effects on the eyes due to radiation emitted by monitors.

One should take some precautionary measures while using a computer for long hours, taking small breaks while using, washing eyes with water making them wet, and relaxing eyes can be a great help.

When computers are used continuously back muscles get harder due to improper sitting positions, neck muscles lose their elasticity, and pain in the hands and joints are the primary adverse symptoms seen.

Taking a rest in between work can overcome the negative consequences of overworking with computers.

Improper digestion is also found in people who work on computers for long and continuous periods.

2. Spread of Pornography

As the computer range has covered every single individual in society, children and even grown-ups are prone and get involved in pornographic content which many websites offer these days.

This type of content, videos, and images are easily available on the internet, people can easily get access,

it is very hard to have control over it, huge numbers of children are addicted to porn videos, and porn images, and once they are addicted it is very hard to overcome.

Many social organizations and even the Government find it very difficult to overcome it. and also to stop the spread of pornographic content this is the major & significant *disadvantage of computer use*.

This has been a universal issue for several years.

3. Virus and Hacking Attacks

Viruses are just computer programs that are designed and developed to harm the computer and steal important information like passwords, pins, and other sensitive information.

Hackers use this program to crack your system down and get unauthorized access to your computer systems, which can damage people economically as well as socially.

One should use legal software, antivirus program, and anti-hacking software while surfing on the net or while online trading which minimizes hacking and virus attacks.

Data security has been a major concern due to **computer viruses** and hacking attacks many companies offer services for data security.

4. Computer Cannot Take Their Own Decision NO IQ

As personal computer [PC] does not have their own IQ they cannot take decisions on their own, which sometimes make our work tedious.

They simply operate when given proper and correct instruction, if computers get wrong or improper instruction the result will be wrong as they do not have logical brains determining true or false.

5. Negative Effect on Environment

Computer waste and the manufacturing process produce lots of waste. which is harmful to the environment and our society.

The used computer or the computer which is in no more use should be donated.

Their waste produces harmful chemicals which pollute our environment and nature, therefore the use of green computer should be applied as it has no adverse effect on the environment and can be recycled.

6. Crashed Networks

The computer can be easily connected to each other via *"NETWORKING"*, *It can connect to the internet.*

Imagine you have an office of 25 computers, all of the computers are connected to each other with shared internet.

while all of your employees do different tasks and operations on their respective computers and one day your network goes down or the whole network is crashed.

You will come to know that all the computers.

which are connected to each other stop working and hence less production or no work is done.

This is one of the significant *Disadvantages of computers occurring* frequently when used in a network.

7. Spread of Violence and Hatred

The spread of violence and hate-related articles can be found easily while surfing the internet.

People get in touch with these articles which destroys the thinking process of individuals and we find consequences that are not for the betterment of human society.

8. Cyber Crimes

Some people who are commonly called *"HACKERS OR CRACKER"* break down our computer system and get unauthorized access and steal our credit card numbers passwords and our sensitive information.

With this information, they violate all laws and misuse our information for their benefit.

"Modern computer and software will revolutionize the way we learn".

9. Data and Information violation

Irrespective of many securities our data can be lost due to damaged memory or using spam websites while they inject malicious program Trojan, or worms into your computer system which corrupts or even destroys the data available on your systems.

And sometimes this program which is developed by hackers or crackers retrieves your bank details with passwords, and credit card information and misuses them.

Advantages and Disadvantages of Computer In Tabular Form

#	Advantages of Computers	Disadvantages of Computers
1	Speed	Health Issues
2	Accuracy	Spread of Pornography
3	Stores Huge Amount of Data	Virus and Hacking Attacks
4	Online Trading	Computer Can Not Take Their Own Decision and have NO IQ
5	Online Education Distance Learning	Data and Information violation
6	Research	Negative Effect on the Environment
7	Forecasting Weather, Predicting Earthquakes, and Volcano Eruptions	Crashed Networks
8	In Business	The computer Can Not Work on Itself
9	Produce Employment	Spread of Violence and Hatred
10	Internet	Online Cyber Crimes

6 Advantages and Disadvantages of Computers for Students

The computer is an incredible electronic device for the student.

They are used and utilized to update and upgrade students' skills and knowledge at rapid speed and convenience.

In this modern era, computer education is mandatory for students and professionals.

The world is moving rapidly to cope with expectations, and students must be aware of modern technology.

#	Advantages	Disadvantages
1	Updating knowledge in a limited time at your own pace.	Students can kill their precious time surfing and accessing social media websites.
2	The online examination can be successfully done with the help and assistance of a computer with an internet connection.	Overuse can damage eyesight as well as digestion.
3	Student can improve their maths and science knowledge freely using the internet.	Students can be addicted to online games, pornography, hatred and violent content.
4	The software programs and applications are readily available online for education and learning.	Students can get lazy.
5	The computer can be used with ease and convenience.	Overuse of computers can damage the overall posture of students.
6	It can save time for homework and	Less physical activities.

assignments.

4 Merits and Drawbacks of Computers in Education

Merits

- 1 Students can learn faster and better than with conventional education.
- 2 Online Education | Distance learning is one of the merits of computers in education.
- 3 The online educational platform saves time and effort.
- 4 Students can explore Google for their problems.

Demerits

- Lack one of our traditional education systems.
- Students need to improve their imagination and visualization.
- The computer system increases the productivity of students.
- Students are relying more on online platforms for solutions.

4 Merits and Drawbacks of Computers in Education

Different Types of Computer Systems

- Supercomputer.
- Mainframe.
- Server Computer.
- Workstation Computer.
- Personal Computer or PC.
- Smartphone.

Top 5 Operating Systems Used in Computers

#	Operating System	Owner	Launched Year
1	Windows 10.	Microsoft	2015
2	Windows 11.	Microsoft	2021
3	Mac OS.	Apple Inc	1984
4	Linux.	Linus Torvalds.	1991
5	Unix.	Open Group	1971
6	Ubuntu.	British company Canonical,	2004
7	Chrome OS.	Google Inc	2008

5 Characteristics of Computers

A computer is a versatile machine that can perform tasks and operations with minimum time and at our convenience.

1. Speed.
2. Accuracy.
3. Diligence.

4. Versatility.
5. Memory.



Main Components of Computer System

The main components of a computer system are mentioned below.

1. Central Processing Unit.
2. Motherboard.
3. Switching Mode Power Supply [SMPS].
4. Cabinet.
5. Random Access Memory [RAM].
6. Hard Disk Drives.
7. DVD-RW.
8. Keyboard.
9. Mouse
10. Solid State Drives [SSD].

Classification of Computers

The computer system can be classified into various types, such as.

1. By Type.

2. By Purpose.
3. By Generations.
4. According To Use.
5. By Size.

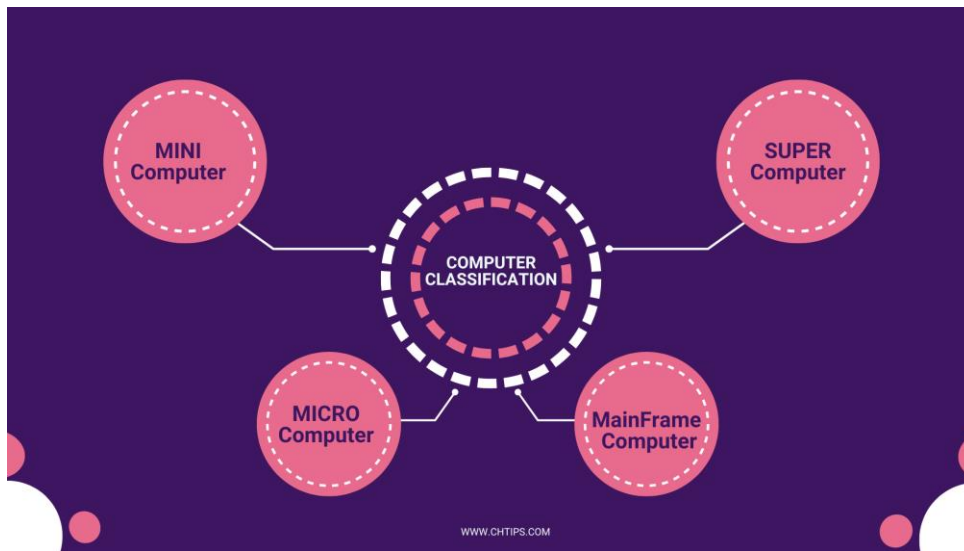
By Type

The computer can be classified according to type in three ways, which are mentioned below.

1. Analog Computer.
2. Digital Computer.
3. Hybrid Computer.

By Purpose.

1. General Purpose Computers.
2. Special Purpose Computers.



Classifications of Computer according to purpose

By Generations.

#	Computer Generations	Timeline	Hardware
1	First Generation of Computer	1940-1956	Vacuum Tubes
2	Second Generation of Computer	1956-1963	Transistor
3	Third Generation of Computer	1964-1971	Integrated Circuit (I.C.)
4	Fourth Generation of Computer	1971-1980	Microprocessor
5	Fifth Generation of Computer	1980- Till Now	Artificial Intelligence

Classifications of Computers According to Their Use

By Size.

1. Micro Computer.
2. Mini Computer.
3. Mainframe Computer.
4. Super Computer.

Four Basic Functions of Computer

The computer is a device that has various functions.

It can be used as a tool to learn and understand, it can be used for entertainment and games, and it can even help you in your daily life by making everyday tasks easier.

The four basic functions of computer system are mentioned below.

- Input
- Output
- Processing
- Storage

Input Unit

The input devices accept raw data and information from outside the world using input devices such as a keyboard and mouse.

The input devices are considered to be the vital devices of the computer.

They are electromagnetic devices capable of accepting information and data from the outside world and translating or converting this data into human-readable form.

The data received with the help of input devices are forwarded or transferred to the CPU [Central Processing Unit] for further processing and handling.

The CPU processed the data using the Arithmetic and Logic Unit. Later the result is presented to output devices such as a printer that is in a human-readable form.

Output Unit

The CPU is responsible for all the operations and tasks are done in the computer system.

The result, when processed, are presented or transferred to an output unit such as printers, display units, monitors, etc.

The result obtained by output devices can be permanently stored in external storage devices like hard disks and DVDs.

The Output devices of a computer are electromagnetic devices that can convert digital signals into logical signals and accepts data in binary form, which are 0s and 1's, and convert them into human-readable format.

There are two types of Output.

1. Softcopy.
2. Hardcopy.

Processing Unit

The processing unit is considered the most fundamental unit of computer systems as it is responsible for all processing, handling, and calculations of data and instructions presented to them.

The instructions are transferred from memory to the control unit for further processing and later moved to output devices to generate outputs.

Storage Unit

The data, instructions, and guidelines given to the computer system are stored in computer memory for processing and operations.

The data is temporarily stored in computer memory.

There are two types of computer memory.

- Primary Memory.
- Secondary Memory.

5+ Uses of Computer System

Computer system use and utilization have increased dramatically over the past few decades. This is because they are user-friendly, inexpensive, and easy to handle and use.

The availability of modern computer systems made them reach every home.

The use of computers is very vital in everyday life. We can use them at home, school, colleges, universities, and work.

Some practical tasks and operations computers can perform are

1. To store and retrieve data.
 2. To conduct research and development.
 3. To connect with others through email or telephone calls, or video calls.
1. Uses of Computers in Education
 2. Uses of Computers in Business
 3. Uses of Computers in Medical Fields
 4. Uses of Computer in Home

5. Uses of Computers in Banking

Uses of Computers in Education

Computers are widely used in education and have significantly changed students' entered education system and life.

The ways of learning have changed due to the introduction of computers and the internet. Computers eventually revolutionized the education industry.

The computer saves students precious time and money.

1. Computers help students in research and development.
2. They are used in completing assignments.
3. They help complete tasks and jobs in a limited time.
4. Complex problems are solved with just a few clicks.
5. The record can be easily maintained.
6. Results, and exam dates, can be circulated with fantastic speed.
7. The computer system helps students in building skills.
8. Books and articles can be read in digital format.
9. Sending and receiving mail.
10. Improved skills and knowledge.

Uses of Computers in Business

The computer helps users to save time and money in business. Computers help businesses in inventory, accounting, and management.

The computer system is one of the most used and utilized devices due to its unique features and characteristics.

The first thing that comes to mind when discussing using computers in business is their role as productivity tools.

The computer can collect, store, retrieve, and analyze information using different tools such as Excel or Word-processor programs.

1. It helps in increasing productivity.
2. Accounting and management can easily maintain using computers.
3. Sensitive data and information can easily be secured.
4. Office Suits such as Word and Excel save official time for creating presentations and documents.
5. Helps in better communications with clients and employees.
6. The manufacturing process can be automated with the help of computers.

Uses of Computers in Medical Fields

1. Inventory.
2. Patience Billing System.

3. Health Insurance Settlement.
4. Keeping touch with new inventions in medical fields.
5. Following WHO [World Health Organization] rules and regulations.
6. Helps in maintaining the record of external doctors and physicians.
7. Reception
8. Doctors Chamber
9. Medical Stores | Pharmacy
10. Investigation Room.

Uses of Computer in Home

- Online shopping is a day-to-day activity that can be done with a computer and internet connection.
- Making budgets can be done with a computer to maintain their monthly budgets.
- Kids can prepare their homework at home using computers.
- Computers have helped many employees with covid [Work from Home].
- Learning can be done at home and at your convenience.

Uses of Computers in Banking

1. All modern banks use computers and the internet for banking.
2. ATMs are used in money transactions.
3. An online transaction can be done with the help of computers.
4. Updating passbooks made it easy to use computers.
5. Balance statements can be received via email.
6. Paying bills and EMI can be performed using computers and the internet.

Learn More on Uses of Computer

What are Computer 10 Points?

Computers are electronic computational devices that are powerful tools used for data and information processing and handling.

The computer systems are designed and developed to take **inputs** from users, process this raw input into machine readable form, and later deliver **output** that human in the form of hard copy or soft copy quickly understands.

What is a Computer

A computer can be called a **Desktop computer, laptop, tablet, mobile phone, or embedded system.**

The term “computer” refers to any device that uses electricity as its power source, including all **mobile devices like smartphones, tablets, and computers.**

Computer systems are capable of storing an enormous amount of data and information.

This data can be stored in a computer hard disk drive or **external storage device** almost permanently. The data can be retrieved whenever the user request or demands.

The term “**computer**” came from the Latin word “**computare**” meaning to calculate. That also came from the ancient Greek word **Kybernetes**, which means “**The art of Steering.**”

The computer system is used for

1. Education.
2. Online Shopping.
3. Research.
4. Research.
5. Communication
6. Banking

10 Lines on Computers for Kids

Computer systems are great devices for learning and exploring. They help and assist kids in enhancing their creative thinking abilities.

The computer also helps kids to improve their concentration power, problem-solving abilities, and creativity.

1. The modern computer encourages exploration for students.
2. The laptop makes kids active and more intelligent.
3. The computer and the **internet** are great tools for kids to acquire knowledge and information.
4. The school homework and assignment can be done with the help and assistance of computers.
5. The word processor and spreadsheet software make life and work more accessible.
6. Computers with interactive games can increase a child’s memory and attentiveness.
7. The laptop can teach students more interactively.

10 Negative Effects of Technology?

There are several adverse effects of technology when overused. Some of them are mentioned below.

1. Lack of Physical Exercise.
2. Health Issues.
3. Isolation.
4. Depression.
5. Waste of Time.
6. Insomnia.
7. Distraction.
8. Dormant Life Style.
9. Hatred and Violence-Related Content.

10. Pornography.

10 Positive Effects of Technology

1. Improved and Enhanced Communication.
2. Better Connectivity.
3. Information and knowledge at fingertips.
4. Online Education.
5. Medical Research.
6. Robotics.
7. Military.
8. Online Shopping.
9. Online Trading.
10. Online Advertisement.

5 Benefits of the Internet

1. Banking
2. Education
3. Advertising
4. Banking
5. Communication

5 Drawbacks of the Internet

1. Health Issues
2. Online Cyber Crime
3. The Spread of Violence and Hatred
4. Spread of Pornography
5. **Virus and Hacking Issues.**
6. Internet Addiction

Who is called the Father of computers?

Charles Benjamin Babbage is known as “The Father of Computer”.

Frequently Asked Questions [FAQs] On Merits and Drawbacks of Computers

What is the Importance of Computer Nowadays?

The modern computer is one of the most important parts of human civilization even our day-to-day routine revolves around its use and implementation.

The computer can help students in their education, research, and solving simple to complex problems within no time.

Even in small and big organization computer helps in maintaining the records of the employee and their salary structure with almost 100% accuracy.

They are so incorporated into our daily lives that the day starts with social media updates and surfing on the internet.

They are very essential in the fields of education, military, defense, research, agriculture, etc.

And if you ask me I consider the computer as a blessing to human civilization.

The major advantage of using computers and mobile is that they help us make hassle-free online payments for online shopping anywhere anytime according to our convenience

How is Computer Useful for Students?

The advantages of computers are endless in a student's life
Online Education (Distance Learning) has made education easy for students who want to study at a specific college/university within their comfort zone irrespective of their time.

These online education platforms offer education 24*7 so the student can take advantage according to his /her schedule.

The computer helps students with their assignments and research it also helps in getting ideas and opinions rather than scratching their heads.

What is the Role of Computer Nowadays in Business?

The computer serves individual in a small and large business in many ways starting from maintaining complete records of the sales and purchase of goods which lower the overall headache of business.

As the records are saved in the database we can obtain desired results within a few clicks like stock availability and it also takes care of our financial aspects.

What are the 10 Advantages of Computers

The 10 advantages of computers are as follows.

Speed

Accuracy

Stores Huge Amount of Data

Online Trading

Online Education | Distance Learning

Research

Forecasting Weather, and Predicting Earthquakes, Volcano Eruptions

In Business

What are the 10 Disadvantages of Computer

Health Issues.

Spread of Pornography

Virus and Hacking Attacks

Computer Can Not Take Their Own Decision NO IQ

Negative Effect on the Environment
Crashed Networks
The computer Can Not Work on Itself
Spread of Violence and Hatred
Online Cyber Crimes
Data and Information violation

What is the Major Disadvantages of Computer

The computer offers us a lot but there are some disadvantages to using computers, laptops, and mobile phones for long hours.

They can affect our eyes as these devices emit harmful radiation which makes our eyes dry which in the future may promote loss of vision and irritations in the eyes.

Sitting in front of a computer can make our digestion process slow because of minimum movement of the body also back pain is seen more frequently in users who are consuming a major chunk of time working on computers.

For More Information Please Visit.

<https://www.chtips.com/computer-fundamentals/advantages-and-disadvantages-of-computer-system/>