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Q. What are the types of Computer?

Ans: There are three types of Computer.

- i. Analog Computer.
- ii. Digital Computer.
- iii. Hybrid Computer.

ANALOG COMPUTER:

Definition:

"A computer which measures quantities along a continuous scale is called analog computer".

Working:

An analog computer does not work directly with numbers or digits. The output can be obtained in analog signals that are in the form of graph or wave.

Memory:

It can store limited amount of data.

Speed:

Processing speed of these computers is slow.

State:

It has no states.

Reliability:

It is less reliable than other computers

Size:

These are being manufactured in small sizes.

Accuracy:

Results obtained by analog computers are accurate.

Readability:

Its readability is low due to output in the form of signals.

Operations:

It can be used to measure variable quantities such as weight, height and temperature etc.

Uses:

Analog computers are mainly used in the fields of Engineering, Medicine and Research Centers

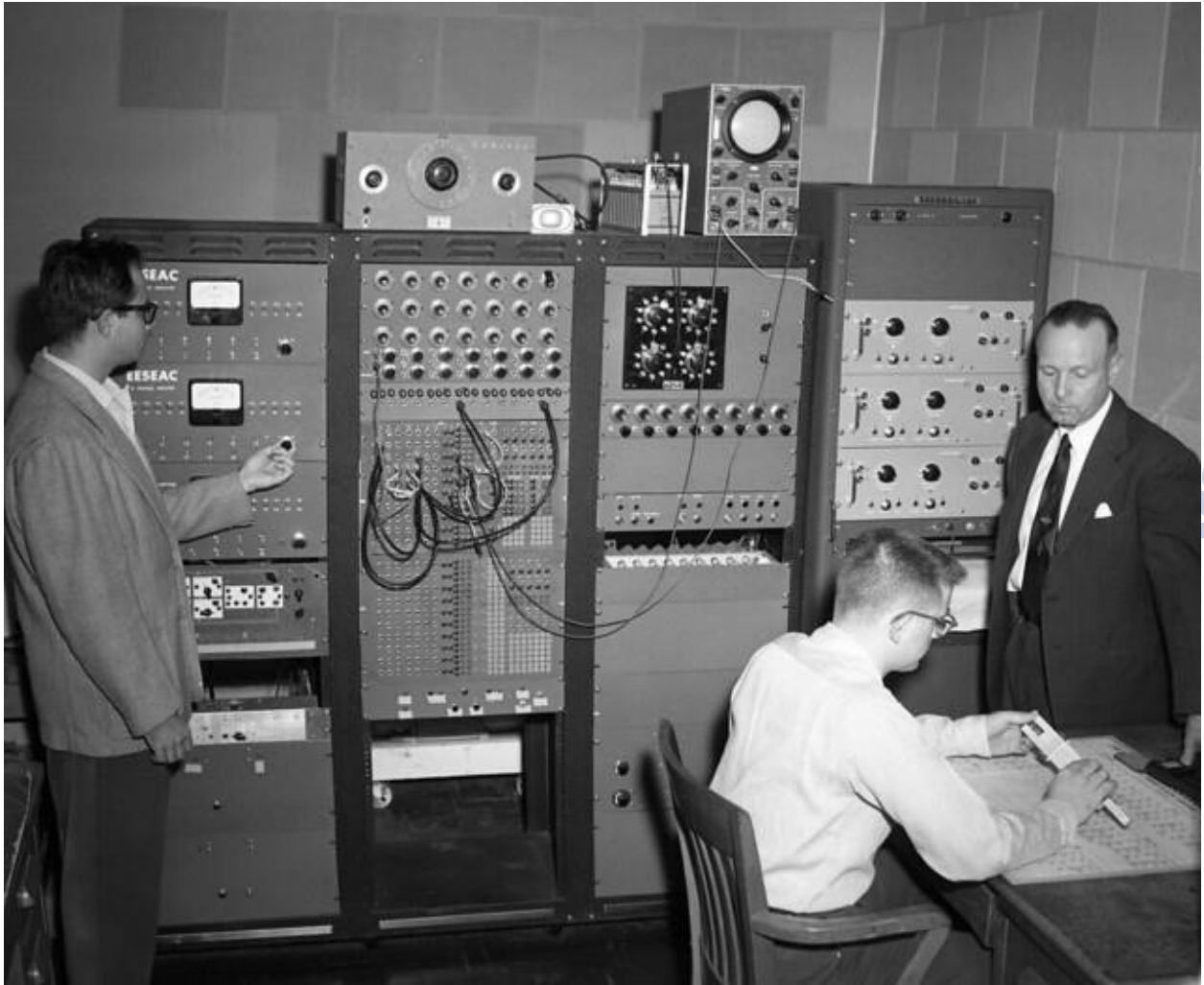
Examples:

Thermometer, Analog Watch, Analog Weight Machine etc.

Just for reference:

Analog Computer

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Analog Watch:



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DIGITAL COMPUTER:

Definition:

"Digital computer works with digits. It measures any physical quantity along discrete or fixed scale"

Working:

It operates by counting numbers or digits and gives output in digital form. These computers directly count numbers or digits. It works only on two digits i.e "0" and "1"

Memory:

It can store large amount of data.

Speed:

Processing speed of these computers is very fast.

State:

It has two states "0" and "1"

Reliability:

It is more reliable than other computers

Size:

These are being manufactured in a wide variety of sizes.

Accuracy:

Results obtained by digital computers are low accurate.

Readability:

Its readability is high.

Operations:

It can be used to perform arithmetical and logical operations such as Addition, Subtraction, Multiplication, Division, Less than, Greater than, equal to etc.

Uses:

It can be used in every field of life.

Examples:

Calculator, Digital Watch, Digital Weight Machine, Personal Computers etc.

For Reference:

All the modern Computer including your smartphone, smart watches are form of digital computer.

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HYBRID COMPUTER:

Definition:

"Hybrid computers have combined features of both analog and digital computer".

Working:

Hybrid computers can get input and give output either in analog form or digital form.

Memory:

It can store large amount of data as compared to analog computers.

speed:

Its speed of calculations is also slow but fast than analog computers.

Size:

These are being manufactured in various varieties of sizes.

Accuracy:

Its accuracy is high when output is in analog form and low when output in digital form.

Readability:

Its readability is high when output is in digital form and low when output in analog form.

Operations:

It can be used to measure variable and physical quantities.

Uses:

Hybrid computers are mainly used in engineering field and medical science. These are also known as special purpose computers.

Examples:

Medical Instruments, ECG Machines, Petrol Pump Machine etc.

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Q: Difference between Analog, Digital and Hybrid Computers

Ans:

Analog Computers	Digital Computers	Hybrid Computers
<u>By Definition</u>		
A computer which measures quantities along a continuous scale.	Digital computer works with two digits It measures any physical quantity along discrete or fixed scale.	Hybrid computers have combined features of both analog and digital computer.
Working		
An analog computer does not work directly with numbers or digits. The output can be obtained in analog signals that are in the form of graph or wave.	It works only with digits i.e "0" and "1 ".	Hybrid computers can get input and give output either in analog form or digital form.
Memory		
It can store limited amount of data.	It can store large amount of data.	It can store large amount of data as compared to analog computers
Speed		
Its speed of calculation is slow.	Its speed of calculation is very.	Its speed of calculation is also slow but fast than analog computers.
Accuracy		
Its accuracy is high.	Its accuracy is low	Its accuracy is low when output is in digital form and high when output is in analog form
Readability		
Its readability is low.	Its readability is high	Its readability is high when output is in digital form and low when out output in analog form.
Size		
These are being manufactured in small sizes.	These are being manufactured in a wide variety of sizes	These are being manufactured in varieties of sizes.
Operations		

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It can be used to measure physical quantities such as weight, height and temperature etc	It can be used to perform arithmetical and logical operations such as addition, subtraction, multiplication, division, less than, greater than etc	It can be used to measure carriable and physical quantities
Uses		
These computer are used in field of engineering and medicine & research centers.	These computer are used as calculators, digital watch, personal computer	These type of computer are used in ECG machines, Medical Machines,

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