



Samrat Ashok Technological Institute

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Que → what do you mean (understand) by software in computer science and how can you categorize the software.

Ans In computer science software refers to a collection of programs and data and instructions that enable a computer system to perform specific task or function.

Software can be categorized into different type based on various ~~and~~ criteria. But there are two important categories.

① System software → This type of software provides a ~~fundamental for~~ foundation for computer system to operate and manage hardware resource. Examples include operating system (windows, macOS, Linux) device drivers and firmware.

② Application software → Application software is designed to perform specific task or provide functionality to end-users. Application software can be classified into general purpose software.

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Que 2 write five features of python that make it user friendly.

Ans. features of python -

- ① Simple and easy to learn.
- ② freeware and open source.
- ③ platform independent.
- ④ Rich library.
- ⑤ Portable.
- ⑥ Embedded.
- ⑦ Extensible.
- ⑧ Interpreted.

Que 3 → List various numerical data type in python with example.



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① int → It store integer type value.

Ex → $x = 5$
 $y = -10$

② float → It store decimal values.

Ex $x = 3.14$
 $y = 0.2$

③ Complex → It store real and imaginary value.

Ex $A = 2 + 3j$
 $B = -1j$

④ Bool → bool represent either true or false value.

$P = \text{True}$
 $q = \text{false}$

⑤ long integers → It store very large whole number.

Ex $x = 12345678924$

PAGE 9

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Ques) solve this expression -

① `print(18.1.6)`

Ans → 0

② `if 12 + 5 < 7 == 153: print("True") else: (False)`
False

③ `print("ITC" + 101)`
error

④ `num = 5 > 4`
`print(num)`
True

Ques) i) let num1 and num2 be the non-empty list. write a python command that will append the last element of num2 to the end of num1.
Ex -

`num1 = [1, 2, 3]`

`num2 = [4, 5, 6]`

`num1.append(num2[-1])`

`print(num1)`

output = [1, 2, 3, 6]