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Assignment - 2

Qu.1. what do understand by software in computer science and how can you categorize the software.

Ans- I computer science software refers to a set of collection of program, data, and instruction that enable a computer system to perform specic function or task. It encompass all the utilities and libraries among other. Software is essentially the non physical aspect of a computer system that enable hardware carry out desired operating

Software can be categorized into several type based on different criterial.

(i) System Software - This type of software includes operating system eg. windows Macos, linux that manage computer hardware and provide essential service to other software applications.

(ii) Application Software - Application software refer to program designed to perform specific task or function for end-user. Ex: word processor web-browser email-client etc.

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Que. write five feature of python that make user friendly ?

Ans. Python it's known for its user friendly nature has several feature that contribute to its ease of use. Here are five features of python make its user friendly •

(I) Readability

(II) Simple and expressive syntax.

(III) Large standard libraries

(IV) free and open source

(V) Easy to code

Que. 3. list the various numerical data type in python with example ?

Ans. In python there are several numerical data type available to representing numbers. Here are commonly used numerical data type in python along with example

(i) integer (int): integer represent whole number without any fraction or decimal

Ex. X = 10

2. <u>float -</u> :   float- are number represent fractional and decimal part just like, ex.

$$x = 3.14$$
$$y = -2.5$$
$$z = 0.0$$

(3.) <u>Coplex -</u> Complex number are used to represent number with a real and imaginary part

$$P = 2 + 3J$$
$$q = -1J$$
$$Z = complex(4J - 2)$$

(4.) <u>Bollean -</u> Boolean represent either true or false the value

Ex.

$$at - true = true$$
$$it - false = false$$

Qu. write the out put for the following expression is evaluated using a python interpreter write an Error if you think the expression will raise an Error!

(i) print(18 % 6)   =   output = 0

(ii)
```
if 12 + 5 * 9 : = = 153:
          print ("true")
     else:
          print ("false")
```

output → false.

Qu. Let the num 1 and 2 be two non empty lists the last element of num 2 to the end of num 1 can be written using append.

<u>Solve</u>

```
num 1. append ( num 2 [-1])
```

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Qu. List is mutable and tuple is immutable. justify with Example.

An. (A) python list is a mutable and tuple is immutable Justify with ex-

Ex mutable list

My-list = [2, 3, 4, 5, 6]
print (My-list)

My-list [2] = 10

print (my list)

→ output : = [2, 3, 4, 5, 6]

Ex immutable tupple -

My-tuple = (1, 2, 3, 4, 5, 6)

print (My-tupple)

my tupple [2] = 10

output → raise an error