Assignment - I

Pythan Programming...

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- . Discum the various Features of Bython.

 11. There are many features of Bython brogramming.
 - · <u>Eary to Code</u> :+ Python in a high level brogramming language · It is very eary to learn the language as Compared to other language.
 - · Python is Postable language if Python language is also Postable language.

 for example 24 we have bython code for windows and if chant to own this code on other platforms such as linux, mac then we don't need to change it, We Can own this Code on any platforms.
- Object Oriented language : one of the features of bython in object oriented brogramming bython supports object Oriented language and Concepts of Class, Objects etc.
- · <u>Extensible Features</u> : Python is a extensible language. We can curite some bython code into or C++ language and also we can compile that code in c/c++ language.
- 0.2 Discuss Input and output Formats in bython.
- Ans2. Input from user in Python _
 - (i) Python get wer Input with a memoge en + num = input ("Enter your name")
 - (ii) Integer 9 nput in bython

 en + num = int (input (ee Enter a No. 11))

How to display output in bython

uning formatted string literals

Python string formatting using F string -

Example :

name = ' Kunal'

boint (t' Hello Ename &! How are you?')

Outbut -

Hello Kunal! How are you?

vis using format ()

Bython string formatting using format() function -

en +

a = 20

B = 10

Sum = a+B

dif = a-b

proint ("The value of a in {3 and b in {3", format (a, b)) brint (" {23 in the sum of {03 and {13", format (a, b, sum))

Outbut -

The value of a in 20 and b in 10 30 in the sum of 20 and 10.

(iii) Uning .1. Operator

→ 1.d → 9ntegers

- 1.f -float

-+ 1/2 -> string

- 1/x - Henadecimal

→ % 0 + octal

en - num = int (input (ee Enters a value"))

add = num +5

point ("The sum of 1.d", 1. add)

Enter Value: 50
The Sum in 55.

Ans. Compare Blue Java / and bython (At least 7)

Java

- i) Javo is a static typed ?
- in Java in slower than python-

- in Widey used and documentation is available easily.
- Uv) Stable Connectivity in Objerted by
 Java
- (v) GUI appr and Web app Services
- Win The Scope of String Operation in Java in very limited
- (vii) 9t Converts bytecode into machine readable language.

Python

- is Python is dynamically-typed programming language.
- (ii) Python in Comparatively farters than

 Tava But in general, It is very slow

 as compared to other language like

 C and C#ctc.
- (iii) Early written and rapid development Can be done.
- (iv) Weak Connectivity in obtered by bython
- (V) Scientific and numeric Computting Carpecially ML.
- (vi) The scope of storing operation in bython in very widespread.
- (vii) 9t teranslates mechine-Independent byte Code.

- in It in procedure oriented brogramming language
- iii C enecuter Faster
- (iii) Pointer Concept in available
- in c has switch statement
- (v) C alcenn't Contains a garbage Collector
- (vi) The array indem in c Should always be positive.
- (vii) The variable is for loops doesn't government automaticity.

- ii) It in an object oriented programming language.
- iii, Python program are Slower than C.
- viii) Pointer are not in use.
- liv) It doesn't support switch statement.
- (v) Python Contains a garbage Collector
- (vi) In bython array Inden may be foritive or Negative.
- (vii) In bython Increment in automatically in for wood by default of +1.

0.4. Discuss the functions.

Am 4. . id () -> Returns memory location of an object.

- · type () -> Returns the type of an Object.
- · max () -> Returns the largest item in an iterable.
- · min () Returns the Smallest item in an iterable
- · eval () -> Evaluate and enecute an empression
- · Ord () -- Convert an Integer representing the micode of the specified Character.
- · Bin () -> Returns the binary version of a No.
- · Chr () -> Returns a Character from the specified chicode
- · oct() -> Convert a No. into an octal.
- · hen () -> Convert a No. into a honerdecimal value.