## GrLA University

Python Programming Assignment

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## Assignment - Ist

- Dixcuss various features of pyther.
- Easy to use > Pythen is very to south as compared to other 5dh. perogramming languages. Its syntax is strught forward. There is no use of semi-color or curly braces.
  - 2 Expressive language > Pythen con perform compact tasks using a few lines of code. It will take only one line to execute, while a take multiple lines.
  - 3) Interpresed language > It is an interpresed language, it means it executed one like at a time. Hance, easy to dobug & postable.
  - 4) object oriented language > The object oriented procedure hops programmer to write rousable code and doeslop applications in law code.

## Pythen

- Ing conguage.
- c executes faster.
- Pointer concept is present
- It has switch statements,
- The array videy in C always be positive.
- c doesn't contains a gentrage ce Dlactor
- The variables in for loops doesn't increment automotically.

- It is procedure oriented progremm- 1) It is an object oriented progremming lenguage.
  - d). Pythen progrem are slower .
  - 3) pointers are not in use.
  - No switch statement 4)
  - Armoy index may be positive cor negetive.
  - It has a gerbeje collector.
  - 7) In python uncrement us automotically in for loop by defends of +1.

Discuss Input & output formets un python.

In: \_ <u>Faturing</u> >> Pythan get uger input with a function Eg - num = input ()

(ii) Integer with in python

Eg - a = int (without ())

How to display output in python >

(i) Using fromoted string litzeles.

Python string formatting using + storing -

Eg => heme = Ishu

print (f' Hi (nome 3! now are you?)

Output ->

Hi Ishu! How are you?

(ii) Using format () >

Eg & a=10

b = 20

sum = a+ b

a = a - b

print (" Value of a is & y & b is & y", fromat (a, b) }
print (" & 2 y is the Sum of & of & & [13", fromat (a, b, sum))

Output 3

The value of a is 10 & b is 20,

30 is the sum of 20 \$ 10:

formet specifier >>

olod > Integer,

·/·f -> floot.

olo & -> & tring.

print (" The sum of %d" % b)

Output  $\Rightarrow$  a = 5The sum is 10.

- (4) Discuss the functions :-
  - 1) id () Returns memory Decotion of an object.
- 2) type () Roturns the type of any object.
- 3) max () Returns the largest no. in an interble.
- 4) min () Returns the smallest no in an iderable.
- 5) eval () coaluste & execute ar expression.
- 6) Ord () Returns the number propresenting unicode of specified character.
- 7) bin () Returns the binery of a number.
- 8) chr () perurus a cherecter from specifical unicode code.
- 9) oct () concests a no into octal.
- 10) hex () Roburts hexadecimed value of a no.