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Subject: - python Assignment-1

Branch: - ECF

Section: - FCF-II

Assignment-1 python

1. List operators in python? describe specifically about identity and membership operator?

Ans- python consists of 7 types of operators they are-

- 1. Arithmetic operators
- 2: Assignment operators
- 3. Comparsion greators
- 4 logical operators
- 5 Membership operators.
- 6. Identity operators
- 7. Bituise operators.

Identity operators: It is used to compare the money location of two

Operators: is =) Returns true if both objects are some.

isnot =) Returns true if both objects are not some.

Gir) $\alpha = 25$ b = 25 a = 25 b = 36 a = 36

Mue. False.
Member Ship Operators: It is used to test if a sequence is present in a

Operators, in =) It returns true if the object is present in a sequence

notine) it returns true if the object is not present in sequence

2) code in codevita

Enm. 1) av = [1,2,3]

2) code in codevirue.

bina brotina

False True

2) list and employ any four features of python? A) Python is strongly typed: python is etrongly typed because every type Conversion in python must be done explicitly. It means a "s" (the string whose value 15151) will remain a string, and rever converted to a trumber if II if the content requires so. Bython is a Beginner's Languager python is a great language for the beginner-level programmers and Supports the development of a wide range. of applications from Simple text processing to LILLLI browsers to games. Easy to use: The code is compiled into byte code and then executed in a virtual machine. This means that precompiled code is portable blue platforms. It supports outomatic garbage collection. Open source: There is no need to pay for python software python can be freely download from LHLW python org website. Its source code can be read, modified and can be used in programs as desired by the

programmers.

3) Give short note on python indentation!
Ans) Indentation refers to the spaces of brackets at the beginning of the readability only, the indentation in python is very important. python uses indentation to identify a block of code

Git if asb: Print ("ais greater than b")

4) What python uses Static typing (or) Dynamic ! Justify your answer!
Any) python uses Dynamic, python is a Dynamically typing language that means it is not necessary to declare the type of variable while
means it is not necessary to declare the type of variable while
absigning a value to it. For instance, to
data type of object.
Ent a= 5 print(a)
5) Explain Input and output function?
And Input: To get input from the user we can use the input function
Sintani
C. variable names: input (ca string values)
Git- K= input (" Enter any data")
out puts to get out put.
Syntonia
Print (Lexpressions)
Print (L'expression >,, compressions)
Print (Lemmessions, end: ")
Print(f(expression 1 {var 13. F'expression 2 {var 23')
Print (empression of y { y '. format (var1, var2,))
Ent- 1 = Graya Har
Parnt (i)
Print (i, end = " ")

5) What are 4 built-in numeric data types in python ? Explain
And Numeric deta types are; Integer
Complex number
Complex number Float.
integers: Integers can be of any length, it is only limited by the memory available.
Float - A floating part
Float: A floating point number is accurate up to is decimal places. Integer and floating points one seperated by decimal points.
enteger and thouting points one Seperated by decimal points.
of integer, 10 is a floating point number
complex numbers complex numbers are returns in the form x+yj, where
It is a real part and y is the imaginary part.
Ent a = 123 b = 1.23 C = 1+25
type(a) type(b) type(c)
int that complex.
7) Give an example of is alnume) method and endswith () method?
Ans) is almost that cheks whether the string consils of alpha numeric
Ans) is alnumed to It cheks whether the string consils of alpha numeric characters str. is alnume).
Ent a : "coderita"
a. is alrum
True.
ends with Os It returns true if the string ends with specified value
otherwise False.
Syntamin string-endswith (value, start, and)
Ent a = Grayathri
a ends with (i)
True,

a) latite a program to find the given year is leap year (or) not? Ans) a = int (input ("enter the year")) if a/4==0: Print (" the given year is leap year") Print (" The given year is not leap year") ed) latite a pytho program to demonstrate explicit conversion? Ans) num-int: 25 hum_1 = "43" Print (type (num-int)) Pant (type (num-1)) hum-res: hum-inh+ inh(hum-1) Print (" the value after conversion is [3". format (num-res)) Print (type (hum res)) out put 2 dous link's ¿ das 'sh's the value after conversion is 68. < class (int's

1) latrite a python program to find	maximum of 4 numbers using eat?
Ator a = int (input (renter a value")	
b= int (input ("enter b value"))	
c = int (input (" enter c value"))	
d= int (input (" enter d value"))	
if a sb & & asc & & asd:	
Print (" a is maximum")	
elif bac & & bad:	
Print (" b is madimum")	
difesd:	
Print ('c is maximum') else	
Print ("d is maximum")	
12) Difference blu list & typle in	py thon.
List	Typle
i) list is mutable) It is immutable
2) It consumes move	i) it consumes less memory compared
menary	to list
3) unempected changes & errow	3) In typle it is hard to take pla
one more likely to occur.	
4) It is seperated by (,) and	u) It is seperated with a comma (, and enclosed in parantheses ().
cholosed with Square brackets	escj.

CJ.