-Accignment-2

- 1. what are data tyres in python? Cyslain.
- -1. Python has following chandard data types:
 - 1. Numeric: It is the representation of data which has a numeric value ist identifies three types of numbers.
 - i) integer: positive negative and whole numbers.
 - ii) Front: Any real number with flooting, point represent -tractional component by decimal symbol.
 - n'il complex: A number with real and imaginary compo.

 -nent represented as x+y.
 - Q. Boolean: Data with one of two built values True or False Motice that T' and F' are capital True and False are not valid booleans.
 - 3. Sequence type: It is an ordered collection of similar or different data types.
 - types) onelmore characters put in single double or triple quotes.
 - Items, not necessarily of same type, put in square brackly tuple: It is an ordered correction of one or more data items, not necessarily of same type, put in put in poranthesis

M. Defiereny: It is an unordered collection of dob in a key value pair form.

Ex: { 1: "stere", 2: "Bill"}

5. Mutable and immulable objects:

Mutable object can be changed after it is created and an immutable object can't objects of tuit in types like int. Heat are immedable objects of built-in typeslike list, did one mulable.

2. Unietly explain history of Fython?

1. Fython was conceived in late 1980's and its implemed--ation was, started in december 1989 by Guido ron Rosson at cast in Netherlands. Python 8.0 was released on octobri 16, 2000 with many major new teature including cycle. -detecting garbage calleda for money management and support. - However, most important change was to the development process itself with a shift to a more trans. - parent and community - backed process.

Tython 3.0. a major backwoods incompositive relove. on December 3,2008 after along period of testing many of its major feature have also been back ported to backwards compatible, while by now unsupported

python 2-6.2.7.

	Celt shirt Left shirt >> Brony Right Shift	This value is moved left by the number of bits specified by right operand Left operands when is moved right by number of low-is moved specified by right operand	
5	· 5. Legical epe	rators:	
	Operator	Description	Grample
	logical AND	it both operands are true then condition becomes true	(a andb) is
Ĭ	or logical	if any of two operands one nonzero then condition bero- mes true	ca orb) ij true
	nd Logical	wed to reverse logical state of its openand	Mol (a appl b) is take.
	6. Membership	oberafors;	
している	in	evaluates to true it it hads a variable in specified sequence and tabeoths.	n my heren result a int 14 n= ment of sequences
	notin	evaluates terture it it doesn't find variable in specified sequence and take otherwise	nerr netin results in a

- 3. Object oriented language: It supports encapsulations
 language and concepts of claux, objects encapsulations
 etc.
- . A module such as PyGts, wax python or The in python. In these pyGts is popular.
- . When we write programs in python, we do not need to remember the system architecture for down need to manage memory.
- 6. Extensible feauture: Le con vorite aux emo python code into clett language and also all oncompethat code in clett language.
 - 7. portable language: It we have python code for windows and it we want to run this code on other platform such as linux, unixoned macther we do need to change it.
 - 8 Interpreted Language: It is integrated language because python orde is executed line by line of a this. The source code of python is converted intom immed

Sesimina	Description	Example
(4) Addition	-Adds values on either	a+b=30.
	side of operator	1
(-) Subtraction	subtract right hand	01-b=-10
	goerator from left	
1 30 11 1 1 2	hand operator	
(*) Multiplication	Multiplies values on	arb = 200.
	either	
Ul Division	Divides left hand operand	1
	by right hand operated.	bla=a.
(z.) modulus.	Divides but hand operand	10-
about a second	by right hard operand	157.0=0.
	and relums remainder	13. I
(**) Extonent	Performs exponêntial	OVERP=10.
in the state of	. calculation on operator	V - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
UN Floor	The Division of opened	s 0/12=4
division	where result is quotient	a.011 20=40
	in which digits after	
a de majpete	decimal point are	
	removed.	

Tules are to the second	tates modulu using two operands and assign result and assign result and assign result and assign result and assign rache to less and assign rache to less and assign rache to less appeared	Corra Cake a is
A Hoor	ound assign value to bit operated	dlesis crella.
Bring &	perform bit by bit open	tor works on
at sticken	Description	Example
Syrry L	operator appears bit to result tip entition but a perator abit if it entits in entre operated	(a 4b)
House y	copes by it if is set in	(ant) =4
oner	t is among and has effect	(000) = -6.1

3. Assignment operators:

2. Elsiduis		,
operator	Description	Example
*	- Assigns values from	C=a+b
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	night side operands	assign arb
	to lest side operand	major (1) (d)
1= Add	Add right operand to	C+ = C is equ
-AND	left operand and assign	ento
	result to lett operand	C= C+a.
	A The British	
Subtract	Subtracts right operand	21 D=-2
\$MD	from left operand andour	igh equal to
	result to let operand	C=C-01.
*=		2 1
Multiply	multiplies right operand	C*-ai
AND	with left operand and	equal to
	orright rague to fact	C= C*α.
Notes to the	operand.	
1= Aivide	divides lest operand with	cl-air
AND	right operand and asign	c=cla

Scanned with CamScanner

a comparison operators: These operators compare values on either sides of them and decide relation arrong them.

`		
Operator	Description	Crample
==	It value of two operands	bu si (q==0)
	are apral then the condi.	true.
	- tion becomes true	-
1=	If values a two operards	(a) to) is true.
	are not equal, then condi-	
	-tion becomes true.	
۷>	It reduces of two open ands	on chi is true.
Ł	are not equal, then condition	n
Segui	becomes true.	
j - 3	It value of left operand:	ii (cosb)istme
W. Fr. Fr.	greater than value of righ	
A. Valle	operard then condition b	como
	true	- 9
4	It value at left operand is g	perty) (oct) is tree.
• 5 - 1	less than value of right oper	ard.
	then condition becomes true	- 4
>=	It value of leftoperard iso	realer (02=6) is red
in the late	or equal to value of right	t true.
150 OF M	- I have how	canned with CamScanner

Scanned with CamScanner

form called bytecode.

S. Tustify why python is interactive interpreted lang.

A. Unlike class, python is an interpreted object oriented programming language. By interpreted it is meant that each time approgram is run the interpreter took checks through code for errors and then interpreter cell instructions into machine, readable type code. A interpreter is translator in computers language which translates given code line by line in machine readable typecodes.

is entered and is followed by return key. It appropriate, result will be printed on screen immediately in ment line. In interactive made, the advantage is debugging of process.

of sequencey.

7. Identity operators: il compoires memory location of two objects.

ù	evaluates to true it variables on	risy bere
	either side of operatorpoint	id(n)
	to same object and take other	edicals of (A)
170	wise	5 A.17
is not	evaluates to take if varioubles	noi noth, there is not
- (5 -	either side of operates paint	resultinit
g.,	to same doject and true offer	id(n) is not a equal to id(y)
N. Say	623e	and the second second
4		

4. Explain features of python?

A. 1. Easy to code:

Python is high level programming language.

This very easy to learn language as compared to

C. Ctt. etc it also developer friendly language.

A. Free and open source: - Since, it is open-source that means the source code is also available to public so you can downlood it and we it as well as shake's.

Scanned with CamScanner