	Assignment - 2 Brinija. D
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1.	What are the datatypes in Python? Explain.
Α.	There are various datatypes in python. They are
1,1	1. Integer - int
-	2. Float - float
	3. Complex No complex
	4. Boolean - bool
	5. String - ste
	Integer datatype: This data type takes in positive
	on negative whole numbers.
1 111	Eg.
	$\alpha = 10$
-	print (a, type(a))
	O/p: 10 <class (int')<="" th=""></class>
-	0/p: 10 20(WB 1/r)C >
	Hoat data type: This datatype takes in floating point
	$\alpha = 5.6$
	print (a, type(a))
	pruva (a) igpe (a)
	O/p: 5.6 <classifloat'></classifloat'>
	Complex data type: This data type takes in complex to
	numbers en the form of
5 15	a + jb (or) a + bj.
	jurised to represent the complex

N N	
3	tille die a collection (or) combination
	String data type: It is a collection (or) combination of data types either enclosed in single quotes (' or " ").
3	de la comple quotes (' or " ").
13	The state of the s
3	Eq
	a = "Hello World!"
	print (a, type (a))
1	the state of the s
	Op: Hello World! <class 'str'=""></class>
3	
	a = "Srinija" print (a) O[P. Srinija"
	print (a)
	Off. Srinija.
	we can perform two operations on strings.
	Indexing and sliving:
	indening was screen
	To determine the length of a stery, we can use
	the len () function
	€ 1 F
	Eg. str = "Hello Wold!"
	length = len(str) prinit (length)
	print (length)
3	sta [0:10:2]
and analysis	Op: 12 op: 'Hlown'
	str [0:4] str [6:]
	op: 'tell' op: world!
	Off. Tiell Off. World!
	str[7] str[-1::-1]
	oje: l Ojp: 'Idrow ollett'
	[강 환경, 경기 : [10]

	19/06/2020	
2.	Briefly explain the history of Python.	
	Python was designed by Guido Van Rossum in 1991. It was named after a comedy show called 'Monty Python's Flying Cineus'	
	Python is a widely used general-purpose, interpreted, high-level, portable, interactive, extensive and embeddable, also object oriented.	
	Python is well known for its simple, free. and open source system and libraries. There are	
3.	Explain all the operators in Python.	
	Python has a wide rang of arithemetic operator They are:	
	- Subtraction α+9. - Subtraction α-9 * Multiplication α*9 / Division α/9.	
	// Floor div. a// g // Modulus a// g ** Exponent/Power a** g	
	Examples:	
	¥ = 75	

	Ezample.
4 - 4 - 7	The same of the sa
3	a,b = 20,40
3	print (a+b, a-b, a*b, a/b, a-1.b)
3	OP: 60 -20 800 0.5 20
3	ad print (a 1/b, a ** b)
3	D/P-, 0 1099511627776 X1090
	grant to the second that the second to the s
3	Python also has various assignment operator.
3	
	= Equal to $\alpha = 5$
Million .	+= Add Increment a += 5
	-= decrement a-=5
TORKE	*= Multiply by itself a * = 5
	/= Division by it a 1 = 5
3	Ezamples:
pilled.	x = 5.
11	· print (a, at=2, at=2, (a*=2), x/=2)
3	
	Q=5
	$\alpha + = 3$
3	$print(a) \Rightarrow 0/p:8$
9	$\alpha = 3$ $\alpha = 2$
3	$print(a) \Rightarrow 0/p: 2 print(a) \Rightarrow 0/p:$
	1.866666666 7
	$a \times = 2$
2	print(a) => 0/p:15
	그러면 주었다. 그리는 하고 이 기는 이 기회 전 그는 그리고 그리고 그리고 그리고 있다. 그리고 하를 가야 없는데 나타다.

	D. H. J. Jane They
	Python has a set of comparison operator. They
	au:
	and the later and the second of the second o
	$= = \frac{\text{Equal}}{1 = \frac{1}{2}} $ $= \frac{1}{2} = $
	> greater than x>y
	< less than x < y.
	>= gratithan or = x>=y
	L= losthanor = X <= 4
1 2 467	The state of the s
	Examples:
	2, y = 5, 10
	$primt(x==y) \Rightarrow 0/p$: False
	print $(x = y) \Rightarrow 0/p$: True
	print(x>y) \Rightarrow o'p: False
	print (1<4) => 0/p: True
	print $(x)=g) \Rightarrow o/p!$ False
	print (x<=y) > 0/p: Irue
	· · · · · · · · · · · · · · · · · · ·
	There is a special operator called 'in'. It tills whither a particular object is present in the string or a bigger object or not
	tells whether a particular object is present
	in the string or a bigger object or not.
	Example: x eny
	y = " Hello-there! How are you?"
	print (x in y)
	O/p: True

2	
4	Explain the features of Python.
3	Python is a programming language. The feautres are:
	1. Simple 2. Fasy to learn
3	3. Free and open source
3	7. High-level language 5. Beginner's language
3	6. Partable
3	7. Interactive 8. Interpreted
3	9. Extensible 10. Object Orientel
3	11. Embeddable
	12. Extensive libraries 13. Hai many databases
5	14. GUI programming and
- 5	15. Scalable,
5	Justify why Python is an interactive and an interpreted language.
3	Interactive: Python is an interactive language because
	we can execute our programs line - by-line
	Using the Python prompt or compiler. It is called interactive because interactive made
	is a command line prompt which gives
3	immediate output for each statement. This happens while seening previously
23	fed statemente in the active memory.
2	

	<u> </u>	
	Interpreted:	
	1. Python is interpreted because a python program directly seens from the source code.	
	2. Python converts source code writed by us into machine language and it is executed. So, Python is an interpreted language.	
	3. Also, it is processed at hen-time by the ulerpreter.	
	enterpreter directly to write the programs-	
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