## Assignment

junait are data types in python? explain A)

Python has following standard data types:estimated programments between the

Doumeric :-1+ 18 representation of data which

has a numeric value. It identifies three types of numbers:-

6-21 MET 3-101 115-32 11 i) integer - positive integetive and whole

in float: - Any real number with floating. point represents tractional component by decimal Symbol: with we will will

in complex - A number with real and imaging--ry component represented as x+41.

2) Booledy Line - Margin disting the Data with one of two built values rabyr-aga zai dwit

True or talse, notice that Tand Fave Capital.

True and false are not valid booleans:

3) sequence Type to At is an ordered collection of Similar or different data types.

BEARING IN 18 COILECTION of one more characters put in single ideuble ortridequotes

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->list: A list is ordered collection of one more date items, not necessarily of same type ituling and said and

Equare browkets Extension of one or more data i tems, not necessarily of same type, put in g-1-1-1 3 THE STALL STALL STALL WITH STALL STANDOWN AS SIGN

yDictionary: Wisan unordered collection of 上、「オカロバーマる data in axey value pair torm ex- [ 1: "steve", 2: "Bill"}

Diving the an organization in the expect of mutable and immutable objects: continue that a training the fell of the

mutable object can be changed after it is establisher like into Heat are immutable. objects of built-in types like list, dist, are mutable 2) Briefly lexplain history of Python?

-status source on the same source of the same of the contration. -mentation was started in becomber was burnido was Rossum" at cust in netherlands. Fython 2.0 was noted -sed on october 16:2000 with many major new feature including cycle-detecting. Barbage confector for memory management and support &.

However most important change was to the development projects itself with a shift to a more Visitation (4 ) transparent and community-backed process. educing 15 the legister python 3.0,0 mayor, backwards, incompatible release, was released on becomber 3,2008 after a long period of teeting many of its major feature THE PRINCE OF WHOME SHILL have also been back ported to backwards compati-- ble , while by now unsupported . Python 2-6, 27 cratical production is 3) explain all operators in python? A) - Bullion of the restrict of Edition of State of Python language supports following types of JUNG FIRM oberators :-DATITHEMETICIOPEROLOGIC GOLD 30 -11/13/ 11 enand acidir cros sadd asidd ist popescription operator example. HAddinon Adds values on either side of Otb=30: operator and in user, inna sur Pubtracts right hand operator .. a-b: -10: essubtracti--0h from 1844 hand operator K() v 1 to (12 ≥ A good it you would disting the multiplies values on either ... app= 200 (A) multipli --cation side of operator on the state of the state of W privision bivides left-hand openand by bla=2 right hand sperand in mile

-142	properties paya pengrapan	2 20.2 Thu.
	right hand operand and return	brazo
333	sore Lavid designation both Take	अव्यक्षकाच्या । जन्मकाच्या
-henr	-Hoke of operators	O A A beno
er & Cill	The second with the second of	871120(4)
PNODY	The division of operands where it result is quotient in which digits	
- 140 x 1400.	accepted bountains among	1120500
2) compar	rision operators: These operal	tore
115	- values on either sides of them o	mineral S
realtion	pamengutiem rulling services	madistri
operator	Description	example
25	if value of two operands are equal then the condition become	. Idi
	equal then the condition becom	Colempi, 12 Hot
- 1 tom	es prine . and forms	Fire
1=04	14 values of two operatide and	Constitution
	not eaual, then conditions begon	(01=Bicture
		, about du
(C.D. )	not equal, then and won	(0 (2))
	not eaual, then condition beco	COLC 280 LZ FAME.
0.25.4		
2	It value of leet pochaling	arol (m
	It value of lest operand is greated -	asby is trile
	-nd then condition becomes true	a=6, b=4

1		
۷	if value of left operandisticesth-	acb) istrue
: • <b>/</b> e: -	-an value of right operand, then	(d) = 411
	condition becomes true	
		100
2=	It value of left operand is greater L	0 2=6)is 200F
\$ ·	or equal to value of right operat	true
÷ *	-and then condition bearing	
	true	
C=	14 value of 1844 operandis	ac=blistrus
1 : 10	lese than lequal to right of Gra-	27 19 1 ·
	-119, then couginon pacouses	
	true	roar ill
3) Assig	inment aperators :-	
sperator	Description	
		example
50.04	Assigns values from right side	
	obelands folett sige obesaug	assignath
#=A&d	The state of the s	value into c
AND	Adds right operand to left operan	d c+=ais, 13
	and assign result to let to be land	equivalento
	Elements Partie Mer	-G=G+a
Subtract		
	SOURCE TO THE TOTAL TOTA	C-= 018
	operand assign result to left	equal by
	•	- 9
*= -	at water motor of the fire	La Tarada
MULHAY AND	multiplies right openand with	1000 270
	left operand and assign value to	C+=aisequ-
	16ft operand	c=c+a'11
	ici opeimir.	10-040

l=bivide	ginines left pheneriamity light	cl=a is		
AND	operand and assign result to left	c=0)a		
	Obereng massimile; sound.			
		\$ 9 h 1		
12	in the management of the state	المرج الأعرب		
modulus	takes modulus asing two percents	ct.=a is		
AND	and assign result to left opera.	c=c-1·a		
	nd - most donated as a sail of			
A Company No.				
emporiont	performs exponential calculation	CA-MO 12		
AND	of the second of	C=C++a		
	Left operand			
11= Floor		A Company		
division		Gl1 = a is		
<b>J</b> . <b>0</b> .	assign value to left operand	c=cl/a		
		2 6 7 (D)		
4) Bitwise operators in Bitwise operation works				
- · ·	on bits and perform bit by bit operation.			
operator	Description	example		
	Language to the interest of the test	7.0		
kBinany	obelaps cobies pit to result itit	(026)		
AM	enists in both operands			
		•		
Birany		א 'ינטביי רו		
1Birany	copies a bit it it exists in either	¢α16)=61		
	operand 1			
NBinany	operandi			
02.	copies a bit it it is set in one operation	(an6)=49		
V B! Day	copies a bit it it is set in one operation	(ans)=49		
V B! Day	copies a bit it it is set in one operation	(ans)=49		
V B! Day	copies a bit it it is set in one operational	(ans)=49		

Carried Control		I I I I
compile	~~	
-WeVA	E MERCHETHAN CHARLES STORY	
cc Birary	This value is moved left by the	<i>i</i>
18K-shift	Dumberof File &	acc==240
The same of the	number of bits specified by night	
2.5		. •
אמים אלים	1644 pherorys name is money	~
Shift	right by night operand	a >>2=15
Sala Million	- Hied by right operand	4 1 · · · · · · · · · · · · · · · · · ·
		(4), (
-2) 1081,c	al operators:-	
V d' . (1)	•	
oberator		, CXCCOD)>
and	if both previous	
logical	if both operands are true then	ca and b) is
AND	condition becomes true.	true
-100	is and the in the areas to be all the	
og lagical	ifanyothing	4.
OR LLU	-Levo then condition becomes	ca orbis
	true	true
Y	V.	1+-
\$	- i and to income in the name of the income	The way I
MOF	used to reverse logical state of	
Logical	ils oberasilistical state of	NOTIC CLA
NOT.	- Forma	(88-1
6) Me	my	15 false
Wei	uperstip oberators:-	
		Fa

in	evaluates to true if it finds a	Jeiny her
	variable in specified sequence	in result
. 10 . 1 .	and false otherwise	aini
		wewperof ,
		sequence y
	Janes and Margons Tr	, 1 <sup>1</sup> 2, 1
mopin	evaluates formers it do esmiting	x noting
	variable in specified requence	here notin
	and take otherwise	result ina
		if xisnet
	-: `~>+:>-: '	memberet sequetac y
		scauetic y
Tidenti	ity operators: it compares men	nory location
- 08- FW	objects in the strong and	, 1
, con	LINE E COMME E WILLS	7 11
is	evaluates totrue if variables;	risy, here
	on either side of operator point	The second secon
- 6	to same objectaria, false otherw-	equals ide
212	-186	
is not	evaluates to talse it variables x	isnoty,
	on eitherside of oferator pointing	ere is not
A 724 1		=suusin1t
The state of	lb]	oul is not
		ualto 12/19)
	and the second second	4.7

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6) extensible feature: we carribrite bur some

python code into clottlanguage and also we can compile that ade in elett language of the transfer of well to be

1) foretable language: ... If we have python Gode for windows and it we want torun this code on other platform such as Linux, unix and mac then we do not need to change it.

interpreted e) le legrated Language : It is intermite à la mou

because Python code is executed line by line at atime. The Source code of python is converted into an immediate form called bytecode.

S) Justify why python is interpretive interpreon with the form of the sale and the ted larguage?

i - the find historian the marrial is A)-sunlike elettipython is an interpreted objectpriented priogramming language, by interpreted it is meant that each time a program is run the interpreter checks through code for errors and then interprets instructions into machine-readable bytecode. An interpreter is translutor in computers language which translates given code line-by-line

in machine readable bytecodes.

-> Python is interactive when a python statement is entered and is followed by Return key it appropriate, result will be printed on screen immediately in next blood line. In interactive mode, the odvantage is debugging of process.