B. SAI KUMAR.
321810302054 B2 Section. what are the data types in python i explain. Every value in 20 Python. has a datatype . Since everything of value in & Python has a datatype one actuary classed and variables are instance of thege classes.

There There are various data types in phython. five of the importantdata types are listed below A numeric value is any representation of tota which has a numeric value pos python identifies 3 types of numbers: integer: It includes positive or negative whole numbers (i)) Float: It includes any real number with a proating point represent in representation in which a fractional component. and implex number: It includes the combination of a real number and y and imaginary component represented as x+y3 where xandy are real are real numbers and value of sis-1. Data with one of two builts in values True or face. In two I and F are of upper case true and false are not valid b) Boolean. and phython will throw an error for them. A sequence is an ordered collection of similar or different data types python, has following built in sequence data types. c) sequence Type. 3) string: A string value is a collection of one or more. characters put in single, double or triple quotes (ii) lift: A list object is an orderded collection of one or more data îtems, not necessarily, of the game type, put Opp Tuple: A Tuple. object is an ordered collection of one or more data îtems not necessarily of the same type, put in Parantneses

A dictionary object is an unordered collection of data in a key; value pair from A collection of such pair is enclosed in curly d) Dictionary. ex-{1." steve", 2. "Bill", 3; "Ram" 4: "Farah"}, in curly brackets 2. Briefly explain history of python. A plaython, is an interpreted high level, general-purpose Prouver of Programming language created by a Guido van Rossum' and first related planted by a philosophy emphasize first released in 1991 python's design philosophy, emphasizes
code reador of on 1991 python's design philosophy emphasizes code readability with its notable use of significant white space. It's language constructs and object oriented approach aim to help programmers write clear, logical code for small and large-scale projects. garbage = collected. It supports multiple programming and functional Paradigms, including structured object oriented and functional Programing Python is often described as a batteries included language due to it comprehensive stanbard library python was conceived in the late 1080's as a successor to the ABC larguay.

Python 2-0, released in 2000 introduced features with reference comprehensions and a garbage collection systems with reference counting of the danguage, which is not completely backward-compatible and many of the python 2 codes doesn't run unmodified on pythons The python a language was officially discontinued in 2020 and python 2.7.18 is the day't python 2.7 released and therefore last python. 2 released No more cocority patches or other improvement will be released for it. with python 2's end-of-life, only python 35.x and later are supported python interpreters are. available for many operating systems. A global community of programmers develops and maintain crython; an open cource referent

implementation A non-profit organization the python software foundation. foundation A non-profit organization the python and chythan manages and direct the recourses for python and cpython development Caplain tue our tue operators in python operators are special symbols in Python that carry Out arithmetic or logical computations The value that operator operates on is could operand. a) Arithmetic operators: Arithmetic operators are used to perform mathematical operates like +, -, *, /, etc - . operator example Meaning 2 operands (or) X+Y. mary pluc racts right operand X-4. from the left (01) unary minus ciplies 2 operands * * * y des left operand by the rightone. Xly. s tue remainder of division of the left (modules) operand by right XXY. division that results anto whole momber X//y (floor division) adousted to the left in number line. operand raised to tue. Power of right operand X**y comparison operators are used to compare values. It b) comparison operators: retorn eitner True or false according to the condition

operator	meaning	example.	
7	grater than - True 1	f	
	left operand is		
	Grater train tu	e.	
	right		
4	7. 700 00 1004	-operand acy.	
	The True if left is less than tu	eright	
	16 less man. m	0	
= 2	True : je botu ope	rand are. ==4	
	equal		
! =	True :12 both operands are of not x124		
	equal		
	True-left operand is grater than 17 = y		
フェ	are equal to the right		
	and equal		
202	True if left operand is less than x2=4.		
	or equal to tu	- right	
	or equic 10 to	0	
logical of	perators. pical operators are t	1 pr not	operators.
log	rical operators are of	The and, or	
	ALL DESCRIPTION OF THE RESIDENCE OF THE PROPERTY OF THE PROPER	societars are	a andy.
And	True if both tue o	perare	
A STATE OF THE STA	True if extrer of t	ue operand is true.	xory
07	True It earlies	of at birthe by	
	True of operand	is false	not or
not	- Davidova (
1) hitwise	operators: meaning	example.	
-	C	x & y = 0	And the second s
operator	Bitwise And	~~0	
operator	Bitwise And Bitwise OR	41 h = 1	4.

cact o perator a) Integrated. it can easily integrated with the language. Justify why plaython is interactive interpreted language A) unlike cicht etc. python is interactive anobject oriented de de la companie de danquage By interpreted is meant that each time a program is for error and then interprets the instruction into machine - readable but a rode. An interpreter is a translator in compopular language which translate the given code int by line machine readable byte codes and if any error is encoutered it stops the transition until the error is fixed it simply returns the ">>> " prompt or the corresponding output of the statement. if appropriate and returns error for incorrect statements. In this way if you have any doubts like whether the center in and import the syntax is correct or the mobile you are importing exists or anything like that you can be sure within seconds. using python. Interactive mode.