	Module - 1 : Assignment Questions.
	Putto D & A A & A & A
	Python Basics: Assignment Questions-1
a	what is the outloon interpretor and
	what is the difference between
Jason	what is the python interpreter and what is the difference between interpreter and compilar?
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A.	lython Interpreter: A program that
<u> </u>	Python Interpreter: A program that executes python code line-by-line.
	4-12-2-202
	Interpreter 1/8 Compiler:
	Interpreter executes code line-by-line -> Slower but eazy to debug.
	-> Slower but eazy to debug.
	J. Taylor graves
a	Compiler translates the whole code
	into machine code at once
20 8 /	-> faster execution.
	Python uses interpreter, not compiler.
2	Explain the Difference between the python interactive mode and script mode.
	python interactive made and script made
As.	Interactive mode:
	. Code is dyped directly in python shell (>>>)
	Executes immediately, good for small tests.
	small tests.

el como en constantino de constantino de constantino de constantino de constantino de constantino de constanti	· Script mode:
	· Code is written in Cpy life and
	executed later.
	· Script mode: · Code is written in (py) file and execuled later. · Suitable for larger programs.
J	python? Crive examples of input and output functions.
	python? Give examples of input
	output functions
•	Console input: Taking user input using is
	input ()
	100m0 = 6 A / 11 = A.
*/7 x .2	name = input ("Enter your name:")
•	Console output: Displaying output using print ()"
,	exint ()"
و کی د	
	print ("Hello", name")
<u>(4,)</u>	What is the purpose of the "input 1)"
KG) G	what is the purpose of the "input ()" function in python?
of any	Used to take input from user as a string.
•	Example: age = input ("enter your age:")
2.7-	(enter your age:)
	the book white the same state of the same
- 11	

(E)	Define conditions so python. How is an if statement used?
and the second s	Conditions: logical expressions that evaluate to true/false.
•	if statement example: x = 10
	print ("x iz greater than 5")
(6)	Differentiate between if, if-else, and if-else statements with examples.
	il : lons if condition is sove.
eg;	if x>0: print ("Positive") if -else: Two-way decision
eg:	
	if-elif-else: Multiple Conditions.
3)	if x > 0 : print ("positive") elif x == 0 : print ("zero") else : print ("Negative")

(7) what is control flow in python ? Crive examples of control flow statement Are Control flow: Determines the order of execution of codes Examples:

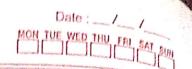
· Conditional -> if, if-else, if-elif-else.

· loops -> for, while.

· jump -> Break, continue, pass. (8) What is the difference between for loop and while loop in python? o for loop: Iterates over sequence (fixed repetitive) og. for i in range (5): print (i) · while loop: luns until condition is false eg i=0while i < 5:

print (i) i + = 11 Define a function in python How do you define and call a function? Aux. Function: A reusable block of code.

The state of the s	
0	Défine : de la
	to the same of the
	100 0 411-
	def great ("Hello")
	print ("Hello")
•	Call:
	Catt
	greet () total boing and
(10)	What is the difference between built-in functions and user-defined functione?
	finational and user = delicated for ation 1?
	Tokenous and Usey - digined for enous.
L.	Delle Flore Delle Delle
A	Built-in Functions: fredefined (eg., print (), len (), type ().
	len(), type().
	Oser defined functions: Written by programmers using "def"
	programmers using def!
	2.2. De la serie d
(II)	What are bythen defatives? Name
	What are python datatypes? Name five built-in datatypes with examples.
Mar 277	O La Company
•	Dotatypes: Define type of data stored.
- F. F. F.	Dotatypes: Define type of data stored.
0	+ 1
	Examples:
- 91	1. int $\rightarrow (x = 10)$
	2. float -> (y = 3.14)
	3. str - (name = "pranay")
	4. bool -> (flag = True)
	5. list → (nome = [1, 2, 3])



12) what is a list in python? worker its main features. Ar. list: Ordered, mutable collection · Features:
· worther in []. · Wortten in I.

· Can store mixed datatypes.

· Allows indexing / slicing.

· Example: fruits = ["apple", "banana", "mango"] 13 Define a tuple in python. How is it different from a list? As o Tuple: ordered jimmutable collection. o Syntax: f = (1, 2, 3)o Différence:

o list > mutable (can be changed,

tuple -> immutable (cannot be changes (19) What is a set in python? How is it different from a list or tuple? An o set: Unordered collection of unique items. ° Syntax: S= &1,2,33

	Date: / / Mon tue wed thu fri sat sun
	Differences: · No Duplicates · Unordered (no indexing) · Faster membership testing than list / tople.
(F)	What is file I/O in python? Explain the use of open() function with modes.
•	File I/O: Reading and writing files.
•	open() function: Opens a file in Specific mode. """" -> Read (Default) """ -> Write (overwrites) "a" -> Append. """ b"/"wb") -> Binary modes
•	Example: f = open ("data.txt, "r")
	content = f. read () F. close ()