JECRC UNIVERSITY, JAIPUR

Assignment - 2 (Unit - 4) Data Analysis using Python Submission Date - 5 April 2023

Instructions:

>> print(a)

- **1.** Attempt all the questions and write relevant question numbers before writing the answer.
- 2. Illustrate your answers with suitable examples and diagrams, wherever necessary.

Part A

1 41 411		
Multiple Choice Questions: - total 10 questions.		1x10 = 10
Q. 1 What will be the output of the following code? >> print(3 + 4 % 7)		
Q. 2 Which one of these is operator is used for getting di A. / B. //	ivision remainder? C.	D. %
Q. 3 What is the output of the following code: >>> print(2**(3**2)) >>> print((2**3)**2)		
>>> print(2**3**2) A. 512, 64, 512	C. 64, 64, 64	
B. 512, 512, 512Q. 4 What is the output of below expression?>> str="hello">> print(list(str))	D. 64, 512, 64	
Q. 5 When you assign a variable (or name) in Python, a softhe equals sign is created, A. True B. False	reference to the object on t	he righthand side
Q. 6 What is the output of this expression, >> True and True or False and True	C. Farrage	
A. True B. False Q. 7 What is the output of below expression, >> number = input("Enter a no. ") >> type(number)	C. Error	
Q. 8 What is the output of the following code? \Rightarrow a = [1,2,3]		
>> b = a >> b.append(4)		
>> print(a)		
Q. 9 What will be the output of the following Python cod $>> i = 1$	le?	
>>> while True: if i%3 == 0:		
break print(i) i += 1		
Q. 10 Write the output, >> a = list(range(2,4))		

Part B

Very Short Answer Questions: - total 4 questions.

2x4 = 8

- Q. 1What is type casting? Write about it with example.
- Q. 2 Write a Python program to display all the multiples of 3 within the range 10 to 50.
- Q. 3 Write the output of the following code.
- >>> rows = 5
- >>> # outer loop
- >>> for i in range(1, rows + 1):
- ... # inner loop
- ... for j in range(1, i + 1):
- ... print("*", end=" ")
- ... print('')
- Q. 4 What are magic commands? Write about it with example.

Part C

Short Answer Questions: - total 2 questions.

6x2 = 12

- Q. 1 WAP to add all the digits of a number. E.g., input \Rightarrow 234, output \Rightarrow 9 (2+3+4) (No. to be inputted by the user.)
- Q. 2 Write a program to accept the cost price of a car and display the road tax to be paid according to the following criteria:

Car Price (Rs)	Tax on price	
< 500000	8%	
> 500000 and < 1000000	12%	
> 1000000	18%	

Part D

Long Answer Questions: - total 2 questions.

10x2 = 20

- Q. 1 A. Explain break, continue and pass statement with the help of a suitable code.
 - B. What is duck typing? Explain using suitable code.
- Q. 2 A. What is the Datetime module in python?
 - B. Which Datetime function is used to convert a string into the datetime objects and from datetime object to string?
 - C. What is time delta?
 - D. What will be the output of below code?
 - >> temp = "02081994145432"
 - >> temp2datetime= dt.datetime.strptime(temp, '%d%m%Y%H%M%S')
 - >> print(temp2datetime)