

SCHOOL OF ADVANCED SCIENCES

Winter Semester 2024-2025 Digital Assignment 1

Programme Name & Branch : MSc. & Data Science

Slot : L29+L30

Course Name & code : Regression Analysis and Predictive Models Lab & PMDS504P

Faculty Name : Dr. Jisha Francis

Due Date & Max. Marks : 23 January, 2025 & 10 Marks

Instructions:

1. Solve each of the following questions by writing Python code in a Jupyter notebook.

- 2. After completing the program, convert the Jupyter notebook into a PDF.
- 3. Upload the PDF file to VTOP before the due date. I will not accept any submissions after the due date.

Questions:

1. Greatest of Three Numbers

Write a Python program to find the greatest of three numbers entered by the user. Example:

- Input: last three digits of your register number, say 2, 8, 1.
- Output: 8 is the greatest number

2. Multiplication Table

Write a Python program to print the multiplication table of a number entered by the user.

3. Print Numbers from 1 to 10 Using a For Loop

Write a Python program to print numbers from 1 to 10 using a for loop.

4. Leap Year Program

Write a Python program using a single-line if-else statement to determine if a number is positive or negative. **Example:**

- Input: -5
- Output: Number is negative

5. Mark Range (Pass or Fail)

Write a Python program that takes a student's marks as input and determines if the student has passed or failed. Assume passing marks are 40.

6. Checking Vowels

Write a Python program to check if a given character is a vowel or not.

7. Sum and Average Using While Loop

Write a Python program to calculate the sum and average of n numbers entered by the user using a while loop.

8. Program to Print Fibonacci Sequence up to a Given Limit

Write a Python program to generate the Fibonacci sequence up to a user-specified limit.

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