

LAB FILE

Python & R Programming Lab (MDS-191)

M.Tech. (Data Sciences)



SUBMITTED TO:

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Sr. No.	Lab	Topic	Programs	Date	Sign
1	Python	Conditional Statements	Write a program to display if age is greater than or equal to 18 then child, if age is between 18 and 35 then young and if greater than 35 then adult.	24-08-2024	
2	Python	Loops & Conditionals	Write a program to check whether a given number is Armstrong number or not.	24-08-2024	
3	Python	Loops	Write a program to print a star-triangle pattern as follows: * ** ***	24-08-2024	
4	Python	Lists & Iteration	Write a program to print whether a series is monotonic increasing, monotonic decreasing or non-monotonic.	31-08-2024	
5	Python	String Manipulation	Write a program to remove punctuations from a string.	31-08-2024	
6	Python	List Manipulation	Write a program to amplify certain number in a list.	07-09-2024	
7	Python	Functions & Conditionals	Create a function that validates whether three given integers form a Pythagorean Triplets.	07-09-2024	
8	Python	Dictionary	Write a program that uses the dictionary that contain 10 username and password.	14-09-2024	
9	Python	Dictionary	Write a program for scrabble game.	14-09-2024	
10	Python	Loops	Write a program to count and filter Odd and Even numbers in a given list using loops	14-09-2024	
11	Python	NumPy	Write a program to multiplication, transpose, determinant & inverse of matrix using NumPy.	21-09-2024	
12	Python	Recursion	Write a program to generate the n-th term of the Fibonacci sequence.	21-09-2024	
13	Python	Pandas	Import pandas and do data analysis as in Netflix dataset.	28-09-2024	
14	Python	Matplotlib	Import Matplotlib and plot some graphs and charts for Netflix dataset.	28-09-2024	
15	Python	Android Deployment	Procedure for Deploying Machine Learning Model on Android Using TensorFlow Lite.	05-10-2024	
16	R	Basic R	Perform the following analysis in R for the given dataset.	19-10-2024	
17	R	Linear Regression	Perform Linear & Multi-Linear Regression and Residual Curve in R for the given dataset.	26-10-2024	
18	R	Logistic Regression	Perform Logistic Regression in R for the given dataset.	26-10-2024	
19	R	Optimization & LPP	Perform Linear Programming in R using lpSolve ().	09-11-2024	