Assignment 2

Date 17/02/2022 AM624D Submission by: 26/02/2022

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Submission Guidelines:

1. Create a folder on google drive by your Name_RollNo

Eg. If your name is Rahul Kottaah and roll number is 12-12-01 then folder name should be **Rahul_Kottah_12-12-01**

2. Create a python notebook file (.ipynb) with name **AssnNo_Name_RollNo**

Eg: Assn2_Rahul_Kottah_12-12-01

- 3. Submit the file by GDrive Link or file on the Google Classroom platform.
- 4. No Handwritten assignments will be accepted. Only ipynb, link to colab notebooks or pdf files generated form notebooks to be submitted.
- 5. Python Notebook file should be with output

- 1 Write a program to input two numbers and perform their addition
- Write a program to input marks and calculate the grade of a student as per the DIAT norms.
- Write a program to find largest among 3 numbers
- Write a program to input number of lines from the user and print the patterns: If the user enters 4 following patters should be printed:

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Write a program to print the Diamond Pattern

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b) print element at index 0		
c) adding an element to the list using + operator		
d) appending an element to the list		
e) negative indexing in list		
f) remove the first occurrence of element a from list		
g) reverse the list		
h) sort list		
8. Write a program to demonstrate use of Dictionary in Python with their inbuilt functions.		
9. Write a program to demonstrate use of Set in Python with their inbuilt functions.		
10. Write a program to demonstrate use of Tuple in Python with their inbuilt functions.		
11. Write a program to calculate Median using List.		
12. Write a program to calculate Mode using List.		
13. Write a program to calculate Mean using List.		
14. Write a program to demonstrate list creation, append entire list to another list		
15. Write a program to demonstrate slicing operations on the list		
16. Write a program to find minimum, maximum in a list		
17. Write a program to search an element in a list, find the number of occurrences and the index of its first occurrence		
18. Write a program to create a 2D list		

Write a program to print the following pattern

19. Write a program to iterate over a 2D list in different ways

20. Write a program to perform spilt and join operation on a list.

a) length using len() function

7. Write a program to make a List in Python and perform following operations on List:

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