**BCS358D Data Visualization with Python**

1. a) Write a python program to find the best of two test average marks out of three test’s marks accepted from the user.   
   b) Develop a Python program to check whether a given number is palindrome or not andalso count the number of occurrences of each digit in the input number.
2. a) Defined as a function F as Fn = Fn-1 + Fn-2. Write a Python program which accepts a value for N (where N >0) as input and pass this value to the function. Display suitable error message if the condition for input value is not followed.   
   b) Develop a python program to convert binary to decimal, octal to hexadecimal using functions.
3. a) Write a Python program that accepts a sentence and find the number of words, digits, uppercase letters and lowercase letters.   
   b) Write a Python program to find the string similarity between two given strings
4. a) Write a Python program to Demonstrate how to Draw a Bar Plot using Matplotlib.  
   b) Write a Python program to Demonstrate how to Draw a Scatter Plot using Matplotlib.
5. a) Write a Python program to Demonstrate how to Draw a Histogram Plot using Matplotlib.   
   b) Write a Python program to Demonstrate how to Draw a Pie Chart using Matplotlib.
6. a) Write a Python program to illustrate Linear Plotting using Matplotlib.   
   b) Write a Python program to illustrate liner plotting with line formatting using Matplotlib.
7. Write a Python program which explains uses of customizing seaborn plots with Aesthetic functions.
8. a) Write a Python program to explain working with bokeh line graph using Annotations and Legends.   
   b) Write a Python program for plotting different types of plots using Bokeh
9. Write a Python program to draw 3D Plots using Plotly Libraries.
10. a) Write a Python program to draw Time Series using Plotly Libraries.  
    b) Write a Python program for creating Maps using Plotly Libraries.