

**AMC ENGINEERING COLLEGE**

KALKERE, BANNERGHATTA ROAD, BENGALURUR -560083, KARNATAKA

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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| COUSE CODE & NAME | **BCS358D Data Visualization with Python** | |
| USN: **1AM22CS** | NAME: **II / III** | YEAR / SEMESTER: **II / III** |

**CONTENT FOR WRITING RECORD FOR VTU EXAMINATION**

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| **Ex. No : 01**  **Date :** | **a) Write a python program to find the best of two test average marks out of three test’s marks accepted from the user.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 01**  **Date :** | **b) Develop a Python program to check whether a given number is palindrome or not and also count the number of occurrences of each digit in the input number.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 02**  **Date :** | **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.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 02**  **Date** | **b) Develop a python program to convert binary to decimal, octal to hexadecimal using functions.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 03**  **Date :** | **a) Write a Python program that accepts a sentence and find the number of words, digits, uppercase letters and lowercase letters.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 03**  **Date :** | **b) Write a Python program to find the string similarity between two given strings** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 04**  **Date :** | **a) Write a Python program to Demonstrate how to Draw a Bar Plot using Matplotlib.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 04**  **Date :** | **b) Write a Python program to Demonstrate how to Draw a Scatter Plot using Matplotlib.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 05**  **Date :** | **a) Write a Python program to Demonstrate how to Draw a Histogram Plot using Matplotlib.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 5**  **Date :** | **b) Write a Python program to Demonstrate how to Draw a Pie Chart using Matplotlib.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 06**  **Date :** | **a) Write a Python program to illustrate Linear Plotting using Matplotlib.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 06**  **Date :** | **b) Write a Python program to illustrate liner plotting with line formatting using Matplotlib.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 07**  **Date :** | **Write a Python program which explains uses of customizing seaborn plots with Aesthetic functions.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 08**  **Date :** | **a) Write a Python program to explain working with bokeh line graph using Annotations and Legends.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 08**  **Date :** | **b) Write a Python program for plotting different types of plots using Bokeh** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 09**  **Date :** | **Write a Python program to draw 3D Plots using Plotly Libraries.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 10**  **Date :** | **a) Write a Python program to draw Time Series using Plotly Libraries.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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| **Ex. No : 10**  **Date :** | **b) Write a Python program for creating Maps using Plotly Libraries.** |

**Aim:**

**Procedure**

**Program**

**Output**

**Result**

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