**Academic Task Number: CA1 Course code:** Cap788 **Date of Conduct 2** Sept **Course title:** Data Science Tool Box Laboratory

**Maximum Marks: 50 Academic Task Type: Practical (25 marks written and execution, 25 marks viva )**

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| **Question Number** | **Question Statement** |
|  | Create an excel sheet having the following columns and e**nter minimum 15 records (5 Marks )**   1. Name 2. Score in test (values will be out of 20) 3. No of attempts (values will be out of 5)   **Fetch excel file and store it as dataframe** |
|  | Now perform the following tasks 10 marks   1. Create another frame having **Qualify column** (values will be Yes or No ) and Merge these two data frames 2. Sort the given data frame by multiple column(s). 3. Drop row(s) by number from given data frame and drop column(s) by name from given data frame. 4. Extract 3rd and 5th rows with 1st and 3rd columns from a given data frame. 5. Apply basic analysis of data 6. Display charts as follows 7. For showing no of attempts 8. For showing status of qualifying students (Yes/No) |
|  | Create two matrices and enter data (3x3). Apply Addition, subtraction, Multiplication of Matrices. 10 Marks |

**Take screen shot of each and every step, Paste it into word along with code and upload on UMS. Write Complete code step by step at one place also.**