



CSC103 Programming Fundamentals  
Terminal Examination (SP25)  
Department of Physics  
CUI, Islamabad

Time allowed: 3 HRS  
Total Marks 100  
Instructor  
Zeeshan Saeed

- Q1. Write a C++ program to sort any user entered array in descending order. Print both, the user entered array and the sorted form of that array to a text file. (10)
- Q2. Write a C++ program to reverse a user entered string of 6 characters. Also make flow chart of your code. (10)
- Q3. Write a C++ program to create functions to capitalize first character of the input string, capitalize all characters of the input string and de-capitalize all characters of the input string. Call them in main, by asking user to enter the type of computation they want and using switch case depending upon the user entered choice. (20)
- Q4. Write a C++ code to make function to compute straight line and quadratic equation. In the main program take appropriate inputs from the user, ask user whether they want to compute straight line or quadratic equation, and call one of the functions accordingly. (20)
- Q5. Write a C++ program and draw its flow chart to compute factorial of a user entered number. Be sure to check if the entered number is 0, its factorial should be returned as 1. Repeat the whole process of calculating factorial, and ask user at the end of the process if they want to continue using the program. If user chooses to continue program, a variable must be set, depending on which, the loop decides to run one more time. (20)
- Q6. Write a C++ program to compute Sum, average, percentage (out of 10), maximum, minimum and standard deviation of a user entered array elements. Make function for each computation, call it in main, by asking user to enter the type of computation they want and using switch case depending upon the user entered choice. (20)