

CL-217

Programming Fundamentals

Lab # 6

Objectives:

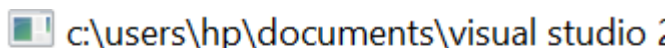
- Practice and understanding on basic c++ programs

Note: Carefully read the following instructions (*Each instruction contains a weightage*)

1. Use proper **font family (Calibri or Times New Roman)** and **font size of title (16 points), heading (14 points), sub heading (12 points) and normal text (10 points).**
2. First think about problem statement and then write/draw your logic on paper.
3. **Microsoft Visual Studio** should be used to make c++ programs. Programs made with any other software would not be accepted.
4. For each task in the manual create a new C++ program with the naming convention as follows:
TASK-NO
5. **Mention what is happening in each line of code using comments.**
6. Write all codes one by one with proper numbering and also paste screen shot of each problem using **snipping tool**(default screen capture software in windows) on **Microsoft word file.**
7. Please submit your file with this naming convention **ROLLNO_SECTION_GROUPNO_LABNO.**
8. **Do not copy from any source otherwise you will be penalized with negative marks.**
9. Submit your lab on **Google Classroom.**

Problem: Write c++ code of following programs

1. Write a program in C++ to produce the output shown below (use setw() and setfill()).



```
#####80
Press any key to continue . . .
```

2. Write a program in C++ to produce the output shown below (use setw() and setfill()).

```
c:\users\hp\documents\visual studio 20
80#####
Press any key to continue . . .
```

3. Write a program which asks the user to enter a number and then displays if it's even or odd.
4. Write a program which asks the user to enter three numbers and then displays which one is the smallest one.
5. Write a program that generates a random number between 1 and 100. If number is less than 50 then it display "Input number is small" and if number is greater than 50 it display "Input number is large" and if number is 50 then "Input number is average". Remember your input number is not less than 1 and not greater than 100.
6. Write a program which asks the user to enter time of the day from the user in hours. Then greets the user according to the time he/she enters.
If time is less than 10, create a "Good morning" greeting, if not, but time is less than 20, create a "Good day" greeting, otherwise a "Good evening".
Note: The input would be an integer if its 10 in the morning the user would enter "10", if its 10 in the night the user will enter "22" (24 hours pattern).
7. Write a c++ program to accept a coordinate point in a XY coordinate system and determine in which quadrant the coordinate point lies.
8. Write a program that asks the user to enter a character. If character is equal to 'M' or 'm', then display "Male"; if it is equal to 'F' or 'f', then display "Female"; otherwise display "Unknown".
9. Write a program in C++ to read any day number in integer and display day name in the word.
10. Input a number that input your choice and then if 1 is pressed then input character and show its ASCII and if 2 is pressed then get input ASCII value and show its character.

Proper text alignment and screenshots will hold extra marks!

Best of luck 😊

You are done with your exercise, submit on slate at given time