CL-1002
Programming Fundamentals
Lab # 11

Objectives:

- Practice and understanding on basic C++ programs
- 1-D Arrays
- Nested Loops
- Loops with Arrays
- Strings
- Character Array

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

1. First think about statement problems and then write your program.
2. Write Program in C/C++ compiler/IDE and save source file **for each program.**
3. Do not copy from any source otherwise you will be penalized with negative marks.
4. Complete your lab **within given Time Slot**.
5. Add your source code in this word document + Make one ZIP file of your all source codes.
6. Please submit your **Both files** with this naming convention ROLLNO_SECTION_LABNO.
7. Submit your lab on Google Classroom.

Problem 1:

Write a program that take a sentence as input from the user then print every character of a string entered by user in a new line.

Problem 2:

Write a program to compare if the two strings entered by user are equal or not by using predefined String functions.

Problem 3:

Write a program that take two strings as input from the user and then perform following

- Find length of both strings
- Concatenate one string value with second
- Reverse the string

Problem 4:

Write the output of the following program with explanation.

```
int main()
{
    char name[] = "CoMPutER";
    for (int x = 0; x < strlen(name); x++)
        if (islower(name [x]))
            name [x] = toupper(name[x]);
        else
            if (isupper(name[x]))
                if (x % 2 == 0)
                    name[x] = tolower(name[x]);
                else
                    name[x] = name[x-1];
    cout << name;
    return 0;
}
```

Problem 5:

Write a program to find the occurrence of a specific character (given by user) in the string.

Problem 6:

Write a program that take a string as input from user and print it after removing all the vowels.

Problem 7:

Write a program that initialize a character array of size 30 then take a two characters **value** and **replacement** from user. After taking input replace all occurrences of character **value** with character **replacement**.

Problem 8: