Green University of Bangladesh

Department of Computer Science and Engineering(CSE)

Faculty of Sciences and Engineering

Semester: (Fall, Year:2022), B.Sc. in CSE (Day)

CLP NO 4

Course Title: Structure programming Lab

Course Code: CSE 104 Section:DB

Lab Experiment Name: _

Student Details

Name		ID
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Lab Date : _ _ _ _ 8-1-22_ _

Submission Date : _ _ _ _ _ 8-1-22_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

Course Teacher's Name : _Sultanul Islam ovi _

[For Teachers use only: Don't Write Anything inside this box]

Lab Report Status

Marks: …… Signature:.....

Comments:..... Date:.....

Tasks

Answer to the problem no:2: Write a program in C to implement _____ without using the library functions.
[15 Marks]
a. strcat operation
b. strlen operation
c. strrev operation
d. strlwr operation
e. strupr operatio

Problem Analysis:

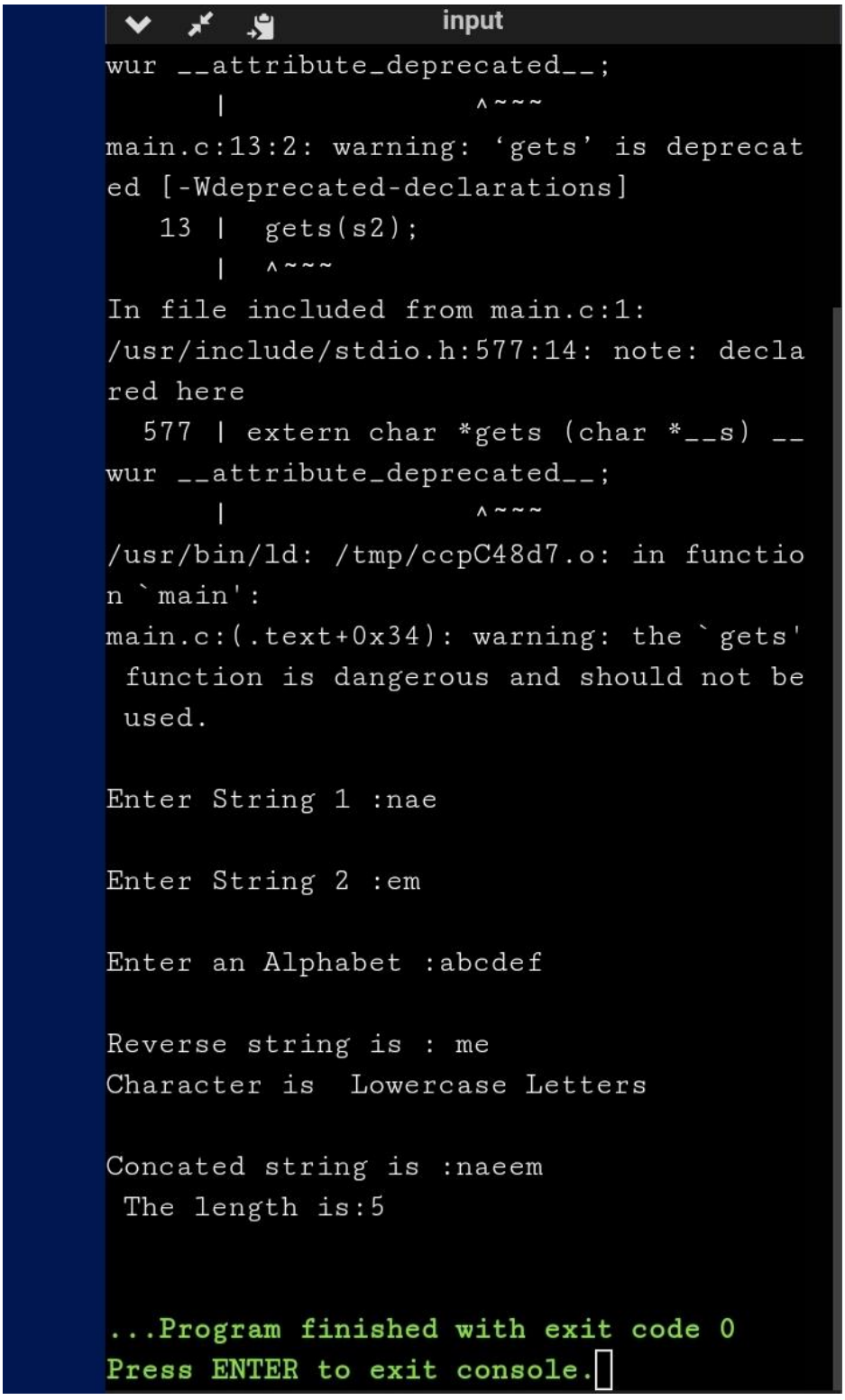
Solution Design:

Code:

```
#include<stdio.h>

void concat(char[], char[]);
int sLength(char[]);
void strReverse(char s[]);
void strLowerUpper(char ch);
int main() {
        char s1[50], s2[30];
        char ch;
        printf("\nEnter String 1 :");
        gets(s1);
        printf("\nEnter String 2 :");
        gets(s2);
        printf("\nEnter an Alphabet :");
        scanf("%c",&ch);
        concat(s1, s2);
        strReverse(s2);
        strLowerUpper(ch);
        printf("\nConcated string is :%s\n ", s1);
        printf("The length is:%d\n",sLength(s1));
        return (0);
}
```

```
void concat(char s1[], char s2[]) {
        int i, j;
        i = sLength(s1);
        for (j = 0; s2[j] != '\0'; i++, j++) {
                s1[i] = s2[j];
        }
        s1[i] = '\0';
}
int sLength(char s[] ){
   int length = 0;

  while (s[length] != '\0'){
    length++;
  }
    return length;
}
void strReverse(char s[])
{
    int i = 0;
   int j = sLength(s) - 1;

  while (i < j) {
    char temp = s[i];
    s[i] = s[j];
    s[j] = temp;
    i++;
    j--;
  }

  printf("\nReverse string is : %s\n", s);
}
void strLowerUpper(char ch)
{

  if (ch >= 'A' && ch <= 'Z') {
    printf("Character is uppercase Letters\n");
  } else if (ch >= 'a' && ch <= 'z') {
    printf("Character is  Lowercase Letters\n");
  } else {
    printf("Non alphabet character\n");
```

```
  }
}
```



Output:

Answer to the problem no: 2

Problem Analysis:

Solution Design:

Code:

Output:
(screenshot of the terminal)

Answer to the problem no: 3

Problem Analysis:

Solution Design:

Code:

Output:
(screenshot of the terminal)