EXPERIMENT:-1.2

Write a program to implement the following operations on strings:

A. Read a string, replace string, perform pattern matching, find and replace any occurrences of a pattern

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Subject Name- DS LAB **Subject Code:-20CSP-236**

1. Aim/Overview of the practical:- Write a program to implement the following operations on strings

2. Task to be done:

Read a string, replace string, perform pattern matching, find and replace any occurrences of a pattern

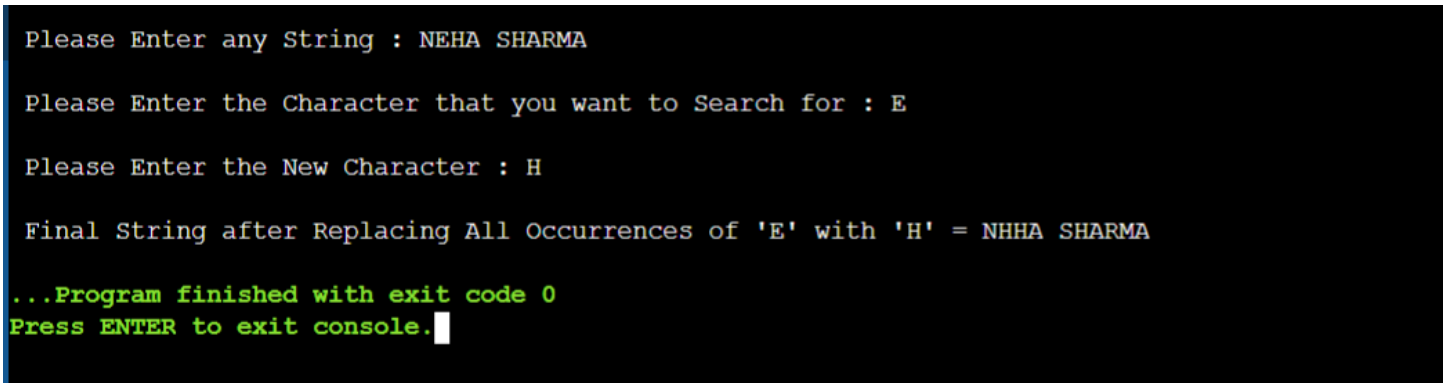
3. Algorithm/Flowchart:

- **Start**
- **Declaring char variables**
- **Asking a string from user**
- **Taking value of string from user**
- **Asking for character to be replaced**
- **Taking value of character from user**
- **Asking for new character from user**
- **Taking value of character from user**
- **Taking for loop**
- **Applying string operation**
- **Displaying the new string to user**

4. Steps for experiment/practical:-

```
#include <stdio.h>
#include <string.h>
int main()
{
 char str[100], ch, Newch;
 int i;
 printf("\n Please Enter any String : ");
 gets(str);
 printf("\n Please Enter the Character that you want to Search for : ");
 scanf("%c", &ch);
 getchar();
 printf("\n Please Enter the New Character : ");
 scanf("%c", &Newch);
 for(i = 0; i <= strlen(str); i++)
 {
 if(str[i] == ch)
 {
 str[i] = Newch;
 }
 }
 printf("\n Final String after Replacing All Occurrences of '%c' with '%c' = %s ", ch, Newch, str);
 return 0;
}
```

5. Output: Image of sample output to be attached here



Learning outcomes (What I have learnt):

1. **Identify situations where computational methods would be useful.**
2. **Learned Declaring variables, taking inputs from users, applying string operations.**
3. **Approach the programming tasks using techniques learned and write pseudo-code.**
4. **Choose the right data representation formats based on the requirements of the problem.**

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			