- 2. Develop a Program in C for the following operations on Strings.
- a. Read a main String (STR), a Pattern String (PAT) and a Replace String (REP).
- **b.** Perform Pattern Matching Operation: Find and Replace all occurrences of PAT in STR with REP if PAT exists in STR. Report suitable messages in case PAT does not exist in STR.

#include<stdio.h>

```
char str[50], pat[20], rep[20], res[50];
int c = 0, m = 0, i = 0, j = 0, k, flag = 0;
void stringmatch()
  while (str[c] != '\0')
     if (str[m] == pat[i])
       j++;
       m++;
       if (pat[i] == '\0')
          flag = 1;
          for (k = 0; rep[k] != '\0'; k++, j++)
             res[j] = rep[k];
          i = 0;
          c = m;
     else
       res[j] = str[c];
       j++;
       C++;
       m = c;
       i = 0;
  res[j] = '\0';
void main()
  printf("\nEnter the main string:");
  gets(str);
  printf("\nEnter the pat string:");
  gets(pat);
  printf("\nEnter the replace string:");
  printf("\nThe string before pattern match is:\n %s", str);
  stringmatch();
  if (flag == 1)
     printf("\nThe string after pattern match and replace is: \n %s ", res);
     printf("\nPattern string is not found");
```

## OUTPUT:

**************************************	
Enter the main string:Designed by vtucode	
Enter the pat string:vtucode	
Enter the replace string:Braham	
The string before pattern match is:  Designed by vtucode	
The string after pattern match and replace is: Designed by Braham	
**************************************	
Enter the main string:Designed by Developer	
Enter the pat string:vtucode	
Enter the replace string:Braham	
The string before pattern match is: Designed by Developer	
Pattern string is not found	