LAB-7

1) Program to copy one string to another string and find its length.

⇒
```
#include <stdio.h>
int main()
{
char Str[50], Str2[50], i, j, lengthB=0;
clrscr();
printf("\n Enter the first String:");
Scanf("%s", Str1);
for(i=0; Str1[i]!='\0'; ++i)
{
Str2[i]= Str1[i];
}
Str2[i]='\0';
printf("Copied String: %s", S2);
for(i=0; Str1[i]!='\0'; i++)
{
  lengthB++;
}
printf("\n the length of Copied string is
        = %d\n", lengthB);
getch();
return 0;
}
```

2) Program to concatenate two Strings.

⇒
```
#include <stdio.h>
int main()
{
char Str1[50], Str2[50], i, j, lengthB=0;
```

```
clrscr();
printf("\n Enter first String:");
scanf("%s", Str1);
printf("\n Enter Second String :");
scanf("%s", Str2);
for(i=0; Str1[i]!='\0'; ++i);
for(j=0; Str2[j]!='\0'; ++j, ++i)
{
Str1[i]= Str2[j];
}
Str1[i]='\0';
printf("\n Concatenated String: %s", Str1);
for(i=0, Str1[i]!='\0'; i++)
{
length++
}
printf("\n the length of concatenated
    String = %d \n", length);
getch();
return 0;
}
```

3) Program to reverse a string and check for palindrome.

⇒

```
#include <stdio.h>
#include <string.h>
int main()
{
Char Str[100], Revstr[100];
int i, j, len, c=0;
clrscr();
```

```
printf ("Enter the String to be reversed: ");
gets (str);
 j=0;
len = strlen (str);
for (i=len-1; i>=0; i--)
{
 RevStr [j++] = str[i];
}
RevStr[i] = '\0';
printf ("\n String after Reversing = %s", RevStr
for(i=0; i<len/2; i++)
{
if (str[i] == str [len-i-1])
c++;
}
if (c==i)
printf ("\n String is palindrome");
else
printf ("\n String is not palindrome");
getch();
return 0;
}
```