

EXPERIMENT NO.8

SOLUTIONS

1. Implement C program which reads and displays your name on screen.

```
#include<stdio.h>
#include<conio.h>
void main()
{
    char nm[10];
    clrscr();
    printf("Enter name\n");
    scanf("%s",nm);
    printf("Name = %s",nm);
    getch();
}
```

2. Implement C program to compare two strings which are given as input through keyboard and print the alphabetically above string.

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
    char a[10],b[10];
    int c;
    clrscr();
    printf("Enter a word");
    gets(a);
    printf("Enter another word");
    gets(b);
    c=strcmp(a,b);
    if(c==0)
        printf("Both strings are alphabetically equal");
    else if(c>1)
        printf("A is alphabetically 1st");
    else if(c<1)
        printf("B is alphabetically 1st");
    getch();
}
```

3. Implement C program for deciding whether given string is palindrome or not. (Use string handling functions)

```

#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
    char a[20];
    char n[20];
    clrscr();

    printf("Enter any word");
    gets(a);
    strcpy(n,a);
    strrev(a);
    if(strcmp(a,n)==0)
        printf("pallindrome");
    else
        printf("Not pallindrome");
    getch();
}

```

4. Implement C program to calculate the length of a given string using string handling function.

```

#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
    char a[20];
    int l;
    clrscr();
    printf("Enter any word\n");
    gets(a);
    l=strlen(a);
    printf("length of string=%d",l);
    getch();
}

```

5. Implement C program to concatenate given two strings using string handling function.

```

#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
    char a[20],b[20];
    clrscr();

```

```

printf("Enter a word\n");
gets(a);
printf("Enter another word\n");
gets(b);
strcat(a,b);
printf("String concatenate=%s",a);
getch();
}

```

6. Implement C program to copy one string over another using string handling function.

```

#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
char a[21],b[10];
clrscr();
printf("Enter a word\n");
gets(a);
strcpy(b,a);
printf("Copied string=%s",b);
getch();
}

```

7. Implement C program to compare two strings and display whether they are equal or not using string handling function.

```

#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
char a[30],b[30];
int c;
clrscr();
printf("Enter a string\n");
gets(a);
printf("Enter another string\n");
gets(b);
c=strcmp(a,b);
if(c==0)
printf("String are equal");
else
printf("String are not equal");
getch();
}

```

8. Implement C program to swap two strings.

```

#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
    char a[20],b[20],t[20];
    clrscr();
    printf("Enter a string\n");
    gets(a);
    printf("Enter another string\n");
    gets(b);
    strcpy(t,b);
    strcpy(b,a);
    strcpy(a,t);
    printf("Swapped\n%s\n%s",a,b);
    getch();
}

```

9. Implement C program to search string in a given string using string handling function.

```

#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
    char name[5][15],i,j;
    clrscr();
    printf("Enter string\n");
    for(i=0;i<5;i++)
    {
        gets(name[i]);
    }
    char nm[15];
    printf("Enter name to serach");
    gets(nm);
    int c=0;
    for(j=0;j<5;j++)
    {
        if(strcmp(name[j],nm)==0)
        {
            c=1;
            break;
        }
    }
    if(c==1)
        printf("String found");
    else

```

```

    printf("String not found");
    getch();
}

```

10. Implement C program to search a character in given string with number of occurrences.

```

#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
    char name[10],n;
    int i,c=0;
    clrscr();
    printf("Enter string\n");
    gets(name);
    printf("Enter character to serach");
    scanf("%c",&n);
    for(i=0;name[i]!='\0';i++)
    {
        if(name[i]==n)
        {
            c=1;
            break;
        }
    }
    if(c==1)
        printf("Character found at %d index",i);
    else
        printf("Character not found");
    getch();
}

```

11. Implement C program to find the length of a string without using string handling function.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    char s[20];
    int i;
    clrscr();
    printf("Enter string\n");
    gets(s);
}

```

```

for(i=0;s[i]!='\0';i++);
printf("Length of string %d",i);
getch();
}

```

12. Implement C program to concatenate given two strings without using string handling function.

```

#include<stdio.h>
#include<conio.h>
void main()
{
char a[21],b[10];
int i,l=0;
clrscr();
printf("Enter string\n");
gets(a);
printf("Enter another string");
gets(b);
for(i=0;a[i]!='\0';i++)
{
l++;
}
for(i=0;b[i]!='\0';i++)
{
a[l+i]=b[i];
}
a[l+i]='\0';
printf("\n Concate=%s",a);
getch();
}

```

13. Implement C program to copy one string over another without using string handling function.

```

#include<stdio.h>
#include<conio.h>
void main()
{
char a[15],b[15];
int i;
clrscr();
printf("Enter string\n");
scanf("%s",a);
for(i=0;a[i]!='\0';i++);

```

```

{
    b[i]=a[i];
}
b[i]='\0';
printf("Copied= %s",a);
getch();
}

```

14. Implement C program to compare two strings and display whether they are equal or not without using string handling function.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    char a[100],b[100];
    int i;
    clrscr();
    printf("Enter string\n");
    gets(a);
    printf("Enter another string\n");
    gets(b);
    for(i=0;a[i]==b[i] && a[i]!='\0';i++);
    if(a[i]<b[i])
        printf("a<b");
    else if(a[i]>b[i])
        printf("a>b");
    else
        printf("a=b");
    getch();
}

```