```
Execise 1:
#include<stdio.h>
#include<string.h>
#include<ctype.h>
int main()
     char s[50];
     int i, vol=0, con=0, dig=0, sp=0;
     printf("Enter the strings :");
     gets(s);
     for(i=0;s[i]!='\0';i++)
          s[i]=toupper(s[i]);
          if(s[i] >= 65 \&\& s[i] <= 90)
             if(s[i]=='A'||s[i]=='E'==s[i]=='I'||s[i]=='O'|| s[i]=='U')
                   vol++;
             else
                  con++;
          }
         else if(s[i] >= '0' && s[i] <= '9')
              dig++;
        else
              sp++;
        }
       printf("\nTotal no of vowel =%d", vol);
      printf("\nTotal no of Consonant =%d",con);
      printf("\nTotal no of Digits =%d",dig);
      printf("\nTotal no of Special Charecter =%d",sp);
}
Exercise 2:
#include<stdio.h>
#include<string.h>
#include<ctype.h>
int main()
     char s[50];
     int i, j, l;
     printf("Enter the strings :");
     gets(s);
     l=strlen(s);
     for(i=0,j=1-1;i<1/2;i++,j--)
           if(toupper(s[i])!=toupper(s[j]))
           break;
     if(i==1/2)
     printf("\n%s is a pallindrome",s);
     else
     printf("\n%s is not a pallindrome",s);
}
```

```
Execise 3:
#include<stdio.h>
#include<ctype.h>
main()
{
     char name[100];
     int i,j;
     printf("\nEnter ur full name: ");
     gets(name);
     printf("%c", toupper(name[0]));
     for(i=1; name[i] != '\0'; i++)
           if(name[i] == ' ')
                 printf(".%c",toupper(name[i+1]));
                 j = i+2;
           }
     for(;name[j] != '\0'; j++)
           printf("%c", name[j]);
}
Execise 4:
Function to find the length of a string.
#include<stdio.h>
int strlength();
int main()
{
     char s[50];
     int 1;
     printf("Enter the string");
     gets(s);
     l=strlength(s);
     printf("Length of string is %d",l);
     return(0);
}
     int strlength(char *s)
           int i=0;
           while(*s!='\0')
                 i++;
                 s++;
           return(i);
```

Function to Copy string from another string.

```
#include<stdio.h>
#include<string.h>
void strcopy(char *,char *);
int main()
     char s[50], t[50];
     printf("Enter the string");
     gets(s);
     strcpy(t,s);
     printf("Copy of the given string is %s",t);
     return(0);
}
     void strcopy(char *t,char*s)
           while (*s!='\0')
           {
                 *t=*s;
                 s++;
                 t++;
           *t='\0';
}
Function to compare two srting whether they are identical or not.
#include<stdio.h>
int strcomp(char *,char *);
int main()
{
     char a[50],b[50];
     int i;
     printf("Enter 1st string :");
     gets(a);
      printf("Enter 2nd string :");
        gets(b);
     i=strcomp(a,b);
     if (i==0)
           printf("The strings are equal");
     else
           printf("The strings are unequal");
int strcomp(char *a,char *b)
           while(*a!='\0' || *b!='\0')
           {
                 if(*a!=*b)
                 return(*a-*b);
                 a++;
```

```
b++;
}
return(0);
}
```

Function to concatenate /merge two strings.

```
#include<stdio.h>
void xstrcat(char *,char *);
int main()
     char a[50],b[50];
     printf("Enter 1st string");
     gets(a);
     printf("Enter 2nd string");
     gets(b);
     xstrcat(a,b);
     printf("Merged string is %s",a);
     return(0);
}
     void xstrcat(char *a,char *b)
     {
           while(*a!='\0')
                a++;
           while(*b!='\0')
                *a=*b;
                a++;
                b++;
           *a='\0';
     }
```