Q1//Write a program to calculate the length of the string

```c
#include<stdio.h>
int main()
{
   char str[10]="INDIA";
   int i;
   for(i=0;str[i];i++);
   printf("length of string is %d",i);
}
```

Q2 //Write a program to count the occurance of given character in a given string.

```c
#include<stdio.h>
int main()
{
   int i,count=0,ch;
   char str[20];
   printf("enter any string");
   fgets(str,20,stdin);

   printf("enter the character you want to search");
   scanf("%c",&ch);

   for(i=0;str[i];i++)
   {
     if(str[i]==ch)
     {
        count++;
     }
   }
   printf("total number of times %c has occured=%d",ch,count);
}
```

Q3 //Write a program to count vowels in a given string

```c
#include<stdio.h>

int main()

/*{

    int c,count=0,ch;

    char s[200];

    printf("enter any string\n");

    fgets(s,200,stdin);

    while(s[c]!='\0')

    {

if(s[c]='=a'||s[c]=='A'||s[c]=='e'||s[c]=='E'||s[c]=='i'||s[c]=='I'||s[c]=='o'||s[c]=='O'||s[c]=='u'||s[c]
=='U')

        {

            count++;

        c++;

        }

    }

    printf("vowels in string is=%d",count);

}*/

{

    int i,count=0;

    char str[200];

    printf("enter any string\n");

    fgets(str,200,stdin);

     for(i=0;str[i]!='\0';i++)

    {

        if(str[i]=='a' ||str[i]=='e'||str[i]=='i' ||str[i]=='o' ||str[i]=='u')

        {

            count++;

        }

    }

    printf("vowles in the string=%d",count);
```

```
}
```

Q4 //Write a program to convert given string into upparcase

```c
#include<stdio.h>
#include<string.h>
int main()
{
    char str[20];
    int l;
    printf("enter any string");
    fgets(str,20,stdin);
    l=strupr(str);
  //  printf("string is=%c",l);
    printf("%s",strupr(str));
}
```

Q5 //Write a program to convert given string into lowercase

```c
#include<stdio.h>
#include<string.h>
int main()
{
    char str[30];
    int l;
    printf("enter any string");
    fgets(str,30,stdin);
    l=strlwr(str);
    printf("%s",strlwr(str));


}
```

Q6 //Write a program to reverse a string

```c
#include<stdio.h>
#include<string.h>
int main()
```

```c
{
    char str[50];

    int l;

    printf("enter any string");

    fgets(str,50,stdin);

    l=strrev(str);

    printf("reverse of string is %s",str);

}
```

Q7 //Write a program in c to count the total number of alphabet ,digit and special character in string

```c
#include<stdio.h>

int main()

{
    char str[50],ch;

    int i,count=0;

    int alp,dig,splch;

    alp=dig=splch=0;

    printf("enter the character,alphabet and string ");

    fgets(str,50,stdin);

    for(i=0;str[i];i++)

    {
        if(str[i]>'a' && str[i]<'z')

        {
            alp++;

        }
        else if(str[i]>'0' && str[i]<'9')

        {
            dig++;

        }
        else

        {
```

```c
            splch++;
        }
    }
    printf("number of alphabet digit and special character=%d%d%d",alp,dig,splch);
}


Q8 //Write a program in C to copy one string into another string
#include<stdio.h>
/*int main()
{
    char str1[50],str2[20];
    printf("enter string str1\n");
    fgets(str1,50,stdin);
    strcpy(str2,str1);
    printf("copied string (str2)=%s",str2);
}*/
int main()
{
    char str1[50],str2[20],i;
    printf("enter the string str1");
    fgets(str1,50,stdin);

    for(i=0;str1[i];i++)
    {
        str2[i]=str1[i];
    }
    str2[i]='\0';
    printf("coping string (str2)=%s",str2);
}
```