

Q1 //Write a function to calculate length of string

```
#include<stdio.h>

void f1(char str[]);

#include<string.h>

int main()
{
    char str[50];
    f1(str);
    return 0;
}

void f1(char str[])
{
    int l;
    printf("enter any string\n");
    fgets(str,50,stdin);
    l=strlen(str);
    printf("length of %s is %d",str,l);
}
```

Q2 //Write a function to reverse a string

```
#include<stdio.h>

#include<string.h>

void rev(char str[]);

int main()
{
    char str[30];
    rev(str);
    return 0;
}

void rev(char str[])
{
```

```

printf("enter any string\n");
fgets(str,30,stdin);
strrev(str);
printf("reverse a string=%s",str);
}

```

Q3 //Write a function to compare two strings

```

#include<stdio.h>
#include<string.h>
void com(char str[],char str1[]);
int main()
{
    char str[100],str1[100];
    com(str,str1);
}
void com(char str[],char str1[])
{
    int value;
    printf("enter first strings");
    fgets(str,100,stdin);
    printf("enter second strings");
    fgets(str1,100,stdin);
    value=strcmp(str,str1);
    if(value==0)
        printf("strings are same");
    else
        printf("strings are not same");
}

```

Q4 //Write a function to transform string into uppercase

```

#include<stdio.h>

```

```

#include<string.h>
void upr(char str[]);
int main()
{
    char str[50];
    upr(str);
}
void upr(char str[])
{
    printf("enter any string\n");
    fgets(str,50,stdin);
    strupr(str);
    printf("%s",strupr(str));
}

```

Q5 //Write a function to transform the string into lowercase

```

#include<stdio.h>
#include<string.h>
void low(char str[]);
int main()
{
    char str[20];
    low(str);
}
void low(char str[])
{
    printf("enter any string\n");
    fgets(str,20,stdin);
    strlwr(str);
    printf("%s",strlwr(str));
}

```

Q6 //Write a program to check given string is an alphanumeric string or not

```
#include<stdio.h>

#include<string.h>

int main()
{
    char s[50];
    f1(s);
}

void f1(char s[])
{
    int i,A=0,D=0;
    printf("enter any string");
    fgets(s,50,stdin);
    for(i=0;s[i];i++)
    {
        if(s[i]>='a'&& s[i]<='z' || s[i]>='A'&& s[i]<='Z')
            A=1;
        if(s[i]>='0'&& s[i]<='9')
            D=1;
    }
    if(A==1&&D==1)
        printf("string is an alphanumeric");
    else
        printf("string is not an alphanumeric");
}
```

Q7 //Write a function to check whether given string is palindrome or not

```
#include<stdio.h>

#include<string.h>

int pal(char str[]);
```

```
int main()
{
    char str[40];
    printf("enter any string");
    fgets(str,40,stdin);
    if(pal(str))
        printf("palindrome");
    else
        printf("not palindrome");
}
int pal(char str[])
{
    int l,i;
    l=strlen(str);
    for(i=0;i<l/2;i++)
    {
        if(str[i]!=str[l-1-i])
            return (0);
    }
    return (1);
}
```