1. Write a program to calculate the length of the string. (without using built-in method)

Ans #include<stdio.h>

int main()

{

char a[30]="Gourab";

int i;

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

printf("Length of String is %d",i);

return 0;

}

#include<stdio.h>

int main()

{

char a[30];

printf("Enter any name:");

fgets(a,30,stdin);

int i;

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

printf("Length of String is %d",i-1);

return 0;

2. Write a program to count the occurrence of a given character in a given string.

Ans #include<stdio.h>

int main()

{

char a[30],b;

int i,c=0;

printf("Enter a String: ");

fgets(a,30,stdin);

printf("Enter a letter: ");

scanf("%c",&b);

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

{

if(a[i]==b)

c++;

}

printf("%c repeated %d times",b,c);

return 0;

}

3. Write a program to count vowels in a given string

Ans #include<stdio.h>

int main()

{

char a[30];

int i,c=0;

printf("Enter a String: ");

fgets(a,30,stdin);

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

{

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

c++;

}

printf("Total vowels are %d",c);

return 0;

}

#include<stdio.h>

int main()

{

char a[30],b[5]={'a','e','i','o','u'};

int i,c=0,j;

printf("Enter a String: ");

fgets(a,30,stdin);

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

{

for(j=0;j<=5;j++)

{

if(a[i]==b[j])

c++;

}

}

printf("Total vowels are %d",c-1);

return 0;

}

4. Write a program to convert a given string into uppercase

Ans #include<stdio.h>

int main()

{

char a[30];

int i;

printf("Enter a String lower case: ");

fgets(a,30,stdin);

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

{

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

a[i]=a[i]-32;

}

printf("%s",a);

return 0;

}

5. Write a program to convert a given string into lowercase

Ans #include<stdio.h>

int main()

{

char a[30];

int i;

printf("Enter a String Upper case: ");

fgets(a,30,stdin);

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

{

if(a[i]>='A'&& a[i]<='Z')

a[i]=a[i]+32;

}

printf("%s",a);

return 0;

}

6. Write a program to reverse a string.

Ans #include<stdio.h>

#include<string.h>

int main()

{

char a[30],t;

printf("Enter a String: ");

fgets(a,30,stdin);

int i,j=strlen(a)-1;

while(i<=j)

{

t=a[i];

a[i]=a[j];

a[j]=t;

i++;

j--;

}

printf("%s",a);

return 0;

}

7. Write a program in C to count the total number of alphabets, digits and special characters in a string.

Ans #include<stdio.h>

int main()

{

char a[30];

int i,ac=0,dc=0,sc=0;

printf("Enter a String: ");

fgets(a,30,stdin);

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

{

if(a[i]>='A'&& a[i]<='z')

ac++;

else if(a[i]>='0'&& a[i]<='9')

dc++;

else

sc++;

}

printf("Number of Alphbet %d\n",ac);

printf("Number of Digit %d\n",dc);

printf("Number of Special Character %d\n",sc-1);

return 0;

}

8. Write a program in C to copy one string to another string.

Ans #include<stdio.h>

int main()

{

char a[30],b[30];

printf("Enter any name:");

fgets(a,30,stdin);

int i;

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

{

b[i]=a[i];

}

printf("%s",b);

return 0;

}

9. Write a C program to sort a string array in ascending order.

Ans

10. Write a program in C to Find the Frequency of Characters

Ans #include<stdio.h>

int main()

{

char a[]="Accross";

int i,freq[150]={0};

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

{

freq[a[i]]++;

}

for(i=0;i<=149;i++)

{

if(freq[i] !=0)

printf("%c ==> %d\n",i,freq[i]);

}

return 0;

}