Assignment 17

#include<iostream>

using namespace std;

int main()

{

    char name[100];

    cout<<"enter your name : "<<endl;

    gets(name);

    int i;

    for(i=0; name[i];i++);

    cout<<"the length of the string is "<<i<<endl;

    return 0;

}

Output:

enter your name :

tushar maliye

the length of the string is 13

PS C:\Users\tusha\Documents\coadind>

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

#include<iostream>

#include<string>

using namespace std;

int main()

{

    char str[100];

    char c;

    cout<<"enter the string  : "<<endl;

    fgets(str,100,stdin);

    cout<<"enter targeted character : "<<endl;

    cin>>c;

    int count=0;

    int i;

    for(i=0; str[i];i++)

    {

        if(str[i]==c)

        {

            count++;

        }

    }

    cout<<c<<" is occured "<< count<< " times."<<endl;

    return 0;

}

Output:

enter the string :

tushar maliye

enter targeted character :

a

a is occured 2 times.

PS C:\Users\tusha\Documents\coadind>

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

#include<iostream>

#include<string>

using namespace std;

int main()

{

    char str[100];

    char c;

    cout<<"enter the string  : "<<endl;

    fgets(str,100,stdin);

    int count=0;

    int i;

    for(i=0; str[i];i++)

    {

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

        {

            count++;

        }

    }

    cout<<" total vowels are "<< count<<endl;

    return 0;

}

Output:

tushar maliye

total vowels are 5

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

#include<iostream>

#include<cstring>

using namespace std;

int main()

{

    char str[100];

    char ch;

    cout<<"emter the string: "<<endl;

    fgets(str,100,stdin);

    cout<<"the upper case versionis as :"<<endl;

    for(int i=0; i<strlen(str); i++)

    {

        ch=toupper(str[i]);

        cout<<ch;

    }

    return 0;

}

Output:

emter the string:

tushar maliye

the upper case versionis as :

TUSHAR MALIYE

PS C:\Users\tusha\Documents\coadind>

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

PROGRAM:

#include<iostream>

#include<cstring>

using namespace std;

int main()

{

    char str[100];

    char ch;

    cout<<"emter the string: "<<endl;

    fgets(str,100,stdin);

    cout<<"the upper case versionis as :"<<endl;

    for(int i=0; i<strlen(str); i++)

    {

        ch=tolower(str[i]);

        cout<<ch;

    }

    return 0;

}

OUTPUT:

emter the string:

TUSHAR MALIYE

the upper case versionis as :

tushar maliye

PS C:\Users\tusha\Documents\coadind>

6. Write a program to reverse a string.

#include<iostream>

#include<string.h>

using namespace std;

int main()

{

    char str[100];

    char ch;

    cout<<" Enter the string :"<<endl;

    gets(str);

    for(int i=strlen(str); i>=0 ; i--)

    {

          cout<<str[i];

    }

    return 0;

}

Output:

Enter the string :

tushar4

4rahsut

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

characters in a string

program:

 #include<iostream>

 #include<cstring>

 using namespace std;

 int main()

 {

    char str[100];

    int alpha=0, digit=0, space=0 , special=0;

    cout<<"enter the string : "<<endl;

    gets(str);

    int i=0;

    while (str[i]!='\0')

    {

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

           {

                alpha++;

           }

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

         {

            digit++;

         }

        else if(str[i]==' ')

        {

            space++;

        }

        else

        {

            special++;

        }

        i++;

    }

    cout<<"alphabets : "<<alpha<<endl;

    cout<<"digits    : "<<digit<<endl;

    cout<<"space     : "<<space<<endl;

    cout<<"special   : "<<special<<endl;

    return 0;

 }

output:

enter the string :

tushar maliye @ 1999

alphabets : 12

digits : 4

space : 4

special : 1

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other practice question;

write a cppp program, tp cjamge everu letter in a gven string with the letter following it in the alphabet

input: w3resource

output: x3sftpvsdf.

Program;

#include<iostream>

#include<string.h>

using namespace std;

int main()

{

    char str[100];

    char ch;

    cout<<" Enter the string :"<<endl;

    gets(str);

    cout<<endl;

    int i=0;

    while(str[i]!='\0')

    {

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

        {

            str[i]=str[i]+1;

        }

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

        {

            str[i]=str[i]+1;

        }

        cout<<str[i];

        i++;

    }

    return 0;

}

Program;

Outpu:

Enter the string :

Tushar45

Uvtibs45

PS C:\Users\tusha\Documents\coadind>

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

 #include<iostream>

 #include<cstring>

 using namespace std;

 int main ()

 {

    char str1[100],str2[100];

    cout<<"enter the string: ";

    gets(str1);

    cout<<" coppied string  is : "<<endl;

    for(int i=0 ;str1[i]!='\0';i++)

    {

        str2[i]= str1[i];

        cout<<str2[i];

    }

    return 0;

 }

Output:

enter the string: tushar maliye

coppied string is :

tushar maliye

PS C:\Users\tusha\Documents\coadind>

Write a cpp program ascending order

#include<iostream>

#include<cstring>

using namespace std;

int main()

{

    char str[100];

    char ch;

    cout<<"enter the string: "<<endl;

    gets(str);

    int length=strlen(str);

    for(int i=0; i<length; i++)

    {

        for (int j=1; j< length; j++)

        {

            if(str[i]>str[j])

            {

                ch = str[j];

                str[j]=str[i];

                str[i]=ch;

            }

        }

    }

    cout<<"ascending order :";

     for(int i=0; str[i]!='\0'; i++)

     {

        cout<<str[i];

     }

    return 0;

}

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

Program;

#include<iostream>

#include<cstring>

using namespace std;

int main()

{

    char str[100], ch;

   cout<<"enter the string : "<<endl;

   gets(str);

   cout<<"enter the character : "<<endl;

   cin>>ch;

   int length= strlen(str);

   int count=0;

   for(int i=0; i<length; i++)

   {

        if(ch == str[i])

        {

            count++;

        }

   }

   cout<<"frequecy of character is : "<<count<<endl;

    return 0;

}

Output:

my name is tushar maliye.

enter the character :

m

frequecy of character is : 3

PS C:\Users\tusha\Documents\coadind>