Task 1:

```cpp
#include<iostream>
int main()
{
        int a;
        std::cout<<"enter a number";

        std::cin>>a;
        if(a>10)
        {
                std::cout<<"number is greater than 10";
        }

        else
        {
                std::cout<<"number is less than 10";


        }
```
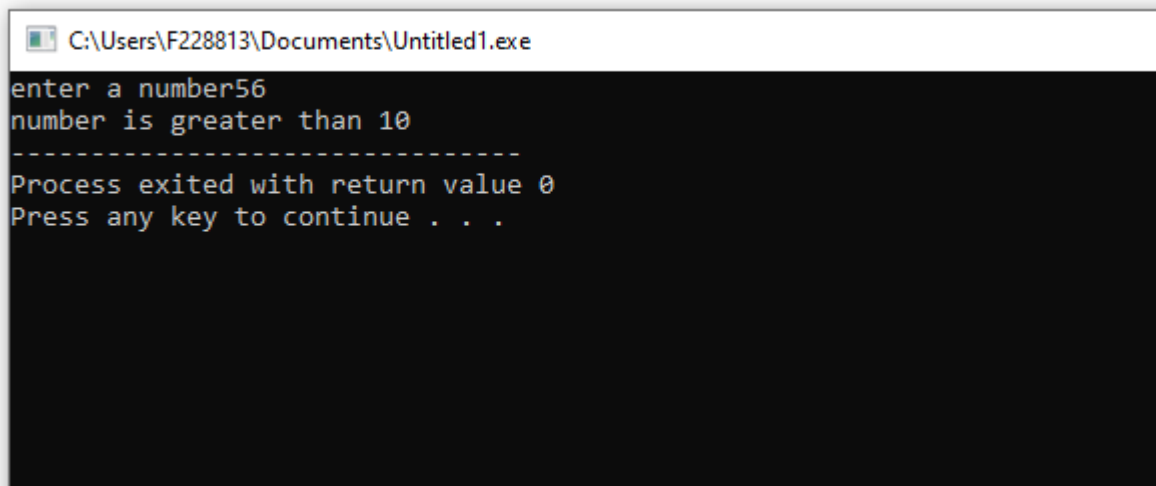
```
}
Task2:
#include<iostream>
int main()
{
        char ch;
        std::cout<<"enter alphabet";
        std::cin>>ch;
        int a=ch;
        if(a>96)
        {
                        std::cout<<"it is a lowercase letter";
                a=a-32;
                ch=a;
                std::cout<<ch;


        }

        else if(a>64 )
        {
        std::cout<<"it is a lowercase letter";
        a=a+32;
        ch=a;
        std::cout<<ch;


        }


        }
```
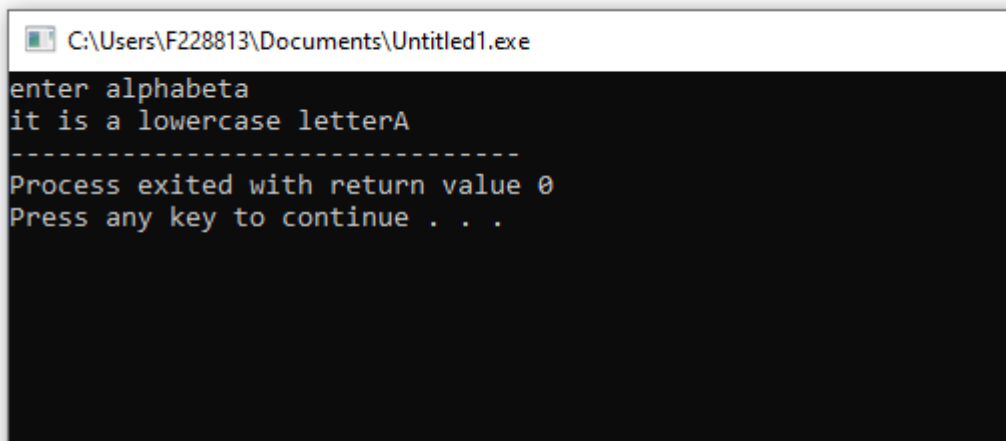
```
C:\Users\F228813\Documents\Untitled1.exe
enter alphabeta
it is a lowercase letterA
--------------------------------
Process exited with return value 0
Press any key to continue . . .
```

Task 3:

#include<iostream>

int main()

{

    int a;

    std::cout<<"enter a number";

    std::cin>>a;

    if(a<5)

    {

        std::cout<<"red";

    }

    else if(a>5 and a<10)

    {

        std::cout<<"green";

```
        }


        else if(a>10 and a<15)

        {

                std::cout<<"blue";



        }

}
```



```
C:\Users\F228813\Documents\Untitled1.exe
enter a number6
green
--------------------------------
Process exited with return value 0
Press any key to continue . . .
```

Task 4:

```
#include<iostream>

int main()

{

        double an,cc,npc,bsc,bill;

        char r,b,bc;

        std::cout<<"enter your account number";

        std::cin>>an;

        std::cout<<"enter customer code";

        std::cin>>cc;

        std::cout<<"enter number of premium channels";
```
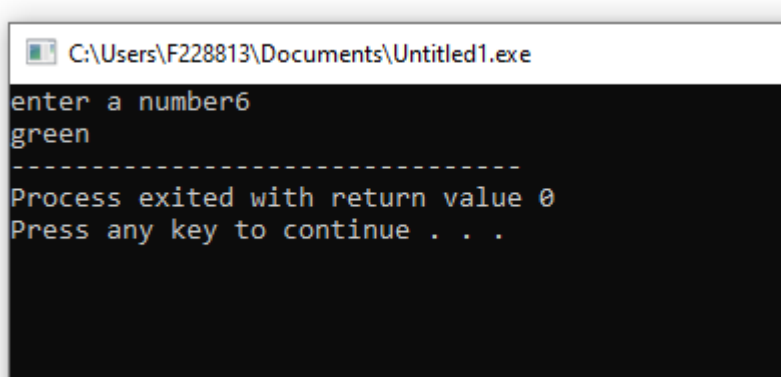
```cpp
std::cin>>npc;

std::cout<<"enter business customer(b) or not(r)";

std::cin>>bc;

std::cout<<"enter number of basic services connections";

std::cin>>bsc;

if(bc=='r')

{

        bill=4.50+(bsc*20.50)+(npc*7.50);

        std::cout<<"your account number"<<an<<std::endl;


         std::cout<<"your bill is"<<bill;




}


else if(bc=='b' )

{

if(bsc>10)

{

                bill=15.00+(((bsc-10)*5.00)+10*75.00)+(npc*50.00);

        std::cout<<"your account number"<<an<<std::endl;


         std::cout<<"your bill is"<<bill;




}

        else if(bsc<=10)

        {

                        bill=15.00+(bsc*75.00)+(npc*50.00);
```
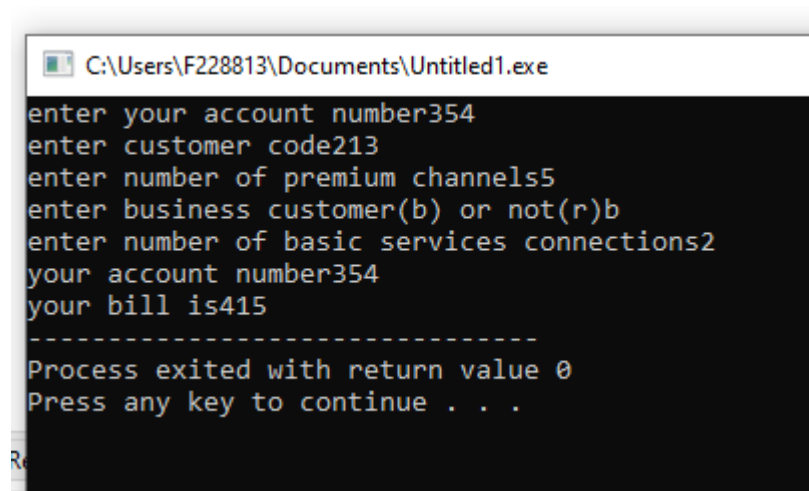
```cpp
            std::cout<<"your account number"<<an<<std::endl;


            std::cout<<"your bill is"<<bill;



        }


    }



}
```


Task 5:
```cpp
#include<iostream>


int main()

{

  int a,num,pali,b,c,d,r;
```

```cpp
std::cout<<"enter your number";
std::cin>>num;
if(num>9999)
{
        if(num<99999)
        {
                a=(num/10000);
                b=(num%10000)/1000;
                c=(num%1000)/100;
                d=(num%100)/10;
                r=(num%10);
                pali=(r*10000)+(d*1000)+(c*100)+(b*10)+(a*1);
                std::cout<<pali<<std::endl;
                if(num==pali)
                {
                        std::cout<<"this is palindrome"<<std::endl;

                }
        else
        {
                        std::cout<<"this is not palindrome"<<std::endl;

        }
        }

}
else
{
        std::cout << "enter correct number";
```
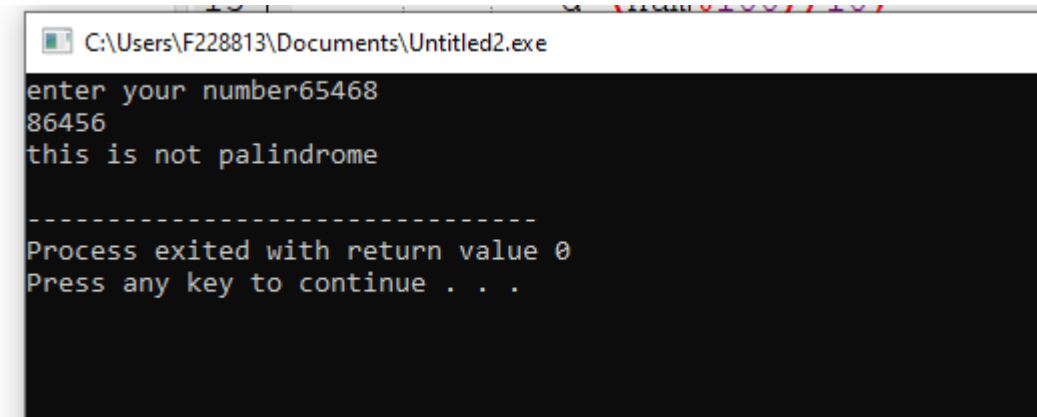
```
}



}
```



```
C:\Users\F228813\Documents\Untitled2.exe
enter your number65468
86456
this is not palindrome

---------------------------------
Process exited with return value 0
Press any key to continue . . .
```

Task 6:

#include<iostream>

int main()

{

       int a;

       std::cout<<"enter your marks";

       std::cin>>a;

       if(a<50)

       {

              std::cout<<"F";

       }

       else if(a>=50 and a<55)

```cpp
{
        std::cout<<"D";



}


else if(a>=55 and a<60)

{
        std::cout<<"C";



}
else if(a>=60 and a<70)

{
        std::cout<<"B";



}
else if(a>=70 and a<80)

{
        std::cout<<"B+";



}
else if(a>=80 and a<90)

{
        std::cout<<"A";
```
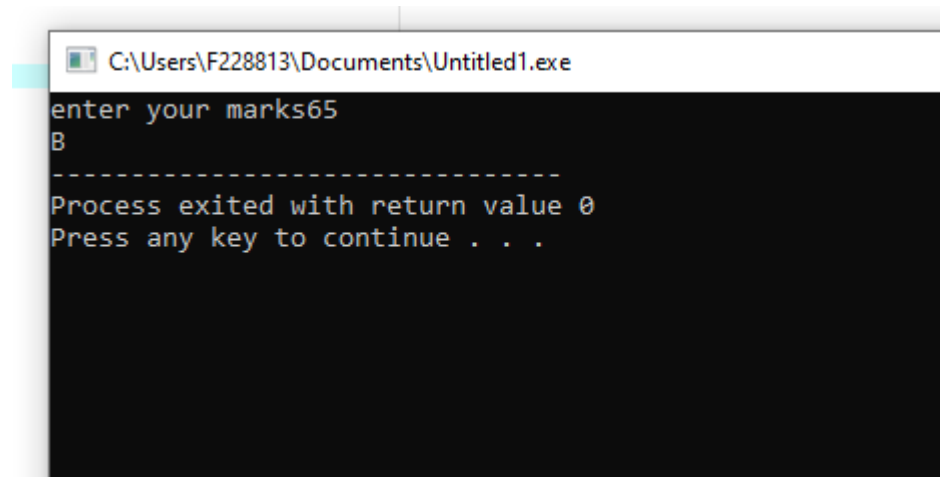
```
        }

        else

        {

                std::cout<<"A+";

        }


}
```

C:\Users\F228813\Documents\Untitled1.exe

```
enter your marks65
B
--------------------------------
Process exited with return value 0
Press any key to continue . . .
```

Task 7:

```
#include<iostream>

int main()

{

        char ch;

        std::cout<<"enter your lowercase alphabet";


        std::cin>>ch;

        int a=ch;

        if(a==97)

        {

                std::cout<<"it is a vowel";
```

```cpp
        }

        else if(a==101)
        {
                std::cout<<"it is a vowel";



        }

        else if(a==105)
        {
                std::cout<<"it is a vowel";


        }
        else if(a==111)
        {
                std::cout<<"it is a vowel";



        }
        else if(a==117)
        {
                std::cout<<"it is a vowel";



        }
        else
        {
                std::cout<<"it is not a vowel";
```
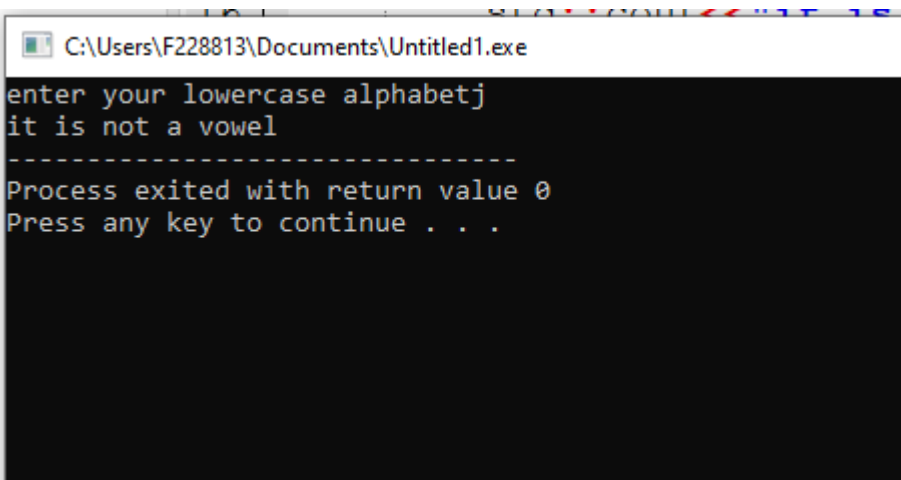
```
        }


}
```

```
enter your lowercase alphabetj
it is not a vowel
--------------------------------
Process exited with return value 0
Press any key to continue . . .
```