Task-01

Run both the sample programs, note the output and get familiar with the syntax.

Code:

```
#include "stdafx.h"
#include<iostream>
using namespace std;
int _tmain(int argc, _TCHAR* argv[])
       int a,b;
       cout<<"USE OF IF ELSE STATEMENT\n";</pre>
       cout<<"Enter 1st number= \n";</pre>
       cin>>a;
       cout<<"Enter 2nd number= \n";</pre>
       cin>>b;
       if (a>b)
       cout<<"1st number is greater than 2nd\n";</pre>
               cout<<"2nd number is greater than 1st\n";</pre>
       system("pause");
       return 0;
}
```

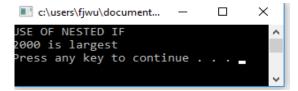
Output:

```
■ c:\users\fjwu\documents\visual studio 2010\...  

VSE OF IF ELSE STATEMENT
Enter 1st number=
87
Enter 2nd number=
99
2nd number is greater than 1st
Press any key to continue . . .
```

Code:

Output:



Task-02

Write a program which take a number from the user and display weather the number is even or odd

Code:

Output:

```
☐ c:\users\fjwu\documents\...  

☐ X

Enter a number=
9

It is odd

Press any key to continue . . . ■
```

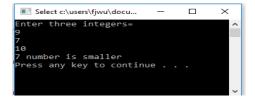
Task-03

Write a C++ code which take three inputs from user, your program should display the smallest value (use nested if)

Code:

```
#include "stdafx.h"
#include<iostream>
using namespace std;
int _tmain(int argc, _TCHAR* argv[])
        int a,b,c;
        cout<<"Enter three integers= \n";</pre>
        cin>>a>>b>>c;
        if(a<b){</pre>
                if(a<c)</pre>
                        cout<<a<<" number is smallest\n";</pre>
        else if(b<a){</pre>
                if(b<c)
                        cout<<b<<" number is smaller\n";</pre>
        else if(c<a){</pre>
                if(c<b)</pre>
                        cout<<c<<" number is smaller\n";</pre>
        }
        system ("pause");
        return 0;
}
```

Output:



Task-04

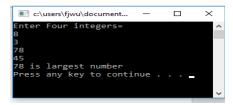
Write a program which take 4 unique inputs from the user and find the largest number from them. (use logical operators for multiple conditions)

Code:

```
#include "stdafx.h"
#include<iostream>
```

```
using namespace std;
int _tmain(int argc, _TCHAR* argv[])
       int a,b,c,d;
       cout<<"Enter Four integers= \n";</pre>
       cin>>a>>b>>c>>d;
       if((a>b)&&(a>c)&&(a>d))
               cout<<a<<" is largest number\n";</pre>
       else if((b>a)&&(b>c)&&(b>d))
               cout<<b<<" is largest number\n";</pre>
       else if((c>a)&&(c>b)&&(c>d))
               cout<<c<" is largest number\n";</pre>
       else
               cout<<d<<" is lagest number\n";</pre>
       system ("pause");
       return 0;
}
```

Output:



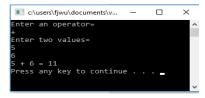
Task-05

Create a calculator in C++ which can perform addition, subtraction, multiplication, division Ask the user to enter the operator first then ask the user to enter first and then second value

Code:

```
#include "stdafx.h"
#include<iostream>
using namespace std;
int _tmain(int argc, _TCHAR* argv[])
       char o;
       int a,b;
       cout<<"Enter an operator= \n";</pre>
       cin>>o;
       cout<<"Enter two values= \n";</pre>
       cin>>a>>b;
       if(o=='+')
               cout<<a<<" + "<<b<<" = "<<a+b<<endl;</pre>
       else if(o=='-')
               cout<<a<<" - "<<b<<" = "<<a-b<<endl;
       else if(o=='*')
               cout<<a<<" * "<<b<<" = "<<a*b<<endl;</pre>
```

Output:



Task-06

Write a program to check whether a triangle is valid or not. The three angles of the triangle are entered through the keyboard. A triangle is valid if the sum of all the three angles is equal to 180 degrees.

Code:

Output:

```
c:\u00eduses\fjwu\documents\visua...

c:\u00eduses\fjwu\documents\visua...

g0

It is a valid triangle
Press any key to continue . . .
```

Task-07

A library charges a fine for every book returned late. For first 7 days late the fine is 10 PKR, for 8-14 days fine is 20PKR and for 15-31 days fine is 50PKR. If you return the book after 31 days your membership will be cancelled. Write a program to accept the number of days from the user and display the fine message or the appropriate message.

Code:

```
#include "stdafx.h"
#include<iostream>
using namespace std;
int _tmain(int argc, _TCHAR* argv[])
       int d;
       cout<<"How many days after the due date are you returning the book?\n";</pre>
       cin>>d;
       if((d>=1)&&(d<=7))
               cout<<"You have to pay a fine of 10 PKR\n";</pre>
       else if((d>=8)&&(d<=14))</pre>
               cout<<"You have to pay a fine of 20 PKR\n";</pre>
       else if((d>=15)&&(d<=31))
               cout<<"You have to pay a fine of 50 PKR\n";</pre>
       else if(d>31)
               cout<<"Your membership is cancelled.\n";</pre>
       else
               cout<<"Thank you\n";</pre>
       system ("pause");
       return 0;
}
```

Output:

