

PROGRAMMING EXERCISE

2.1)

//C++ program to print a desired output

```
#include<iostream>
```

```
using namespace std;
```

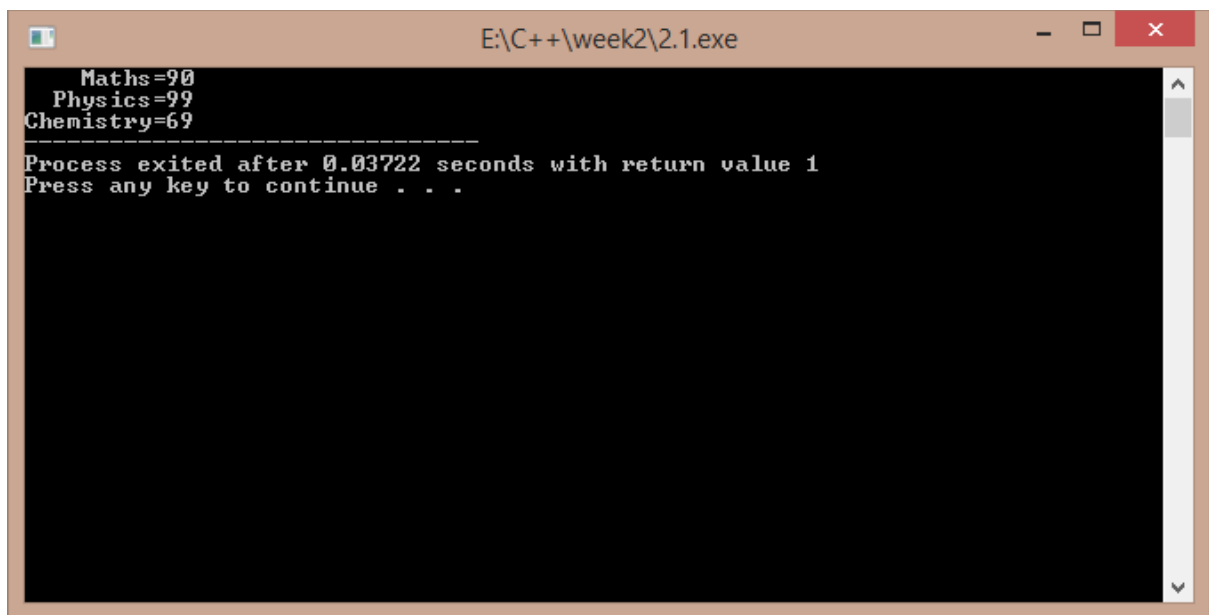
```
int main()
```

```
{
```

```
    cout<<" Maths=90\n Physics=99\nChemistry=69";
```

```
    return 1;
```

```
}
```

A screenshot of a Windows command prompt window titled "E:\C++\week2\2.1.exe". The window has a black background with white text. The output of the program is displayed as follows:

```
Maths=90
Physics=99
Chemistry=69
-----
Process exited after 0.03722 seconds with return value 1
Press any key to continue . . .
```

2.2)

//a c++ program to find larger of two numbers

```
#include<iostream>
```

```
using namespace std;

int main()
{
    int a,b;

    cout<<"enter two numbers : ";

    cin>>a>>b;

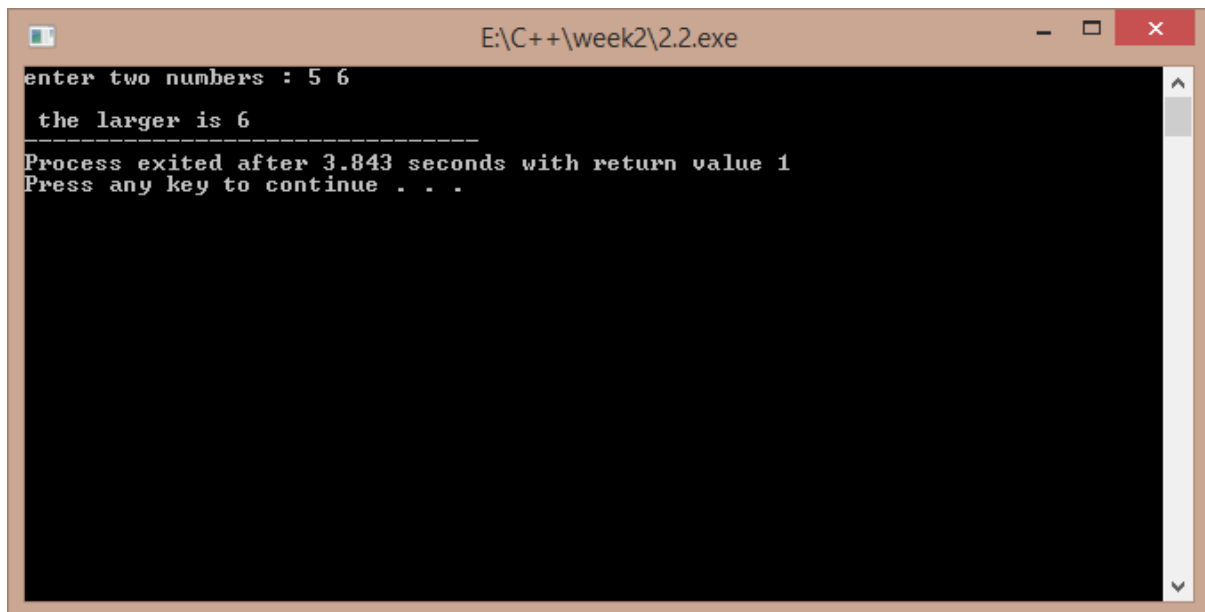
    if(a>b)

        cout<<"\nthe larger is "<<a;

    else

        cout<<"\n the larger is "<<b;

    return 1;
}
```



2.3)

//c++ program to print the ascii value of a character

```
#include<iostream>
```

```
using namespace std;
```

```

int main()
{
    char ch;

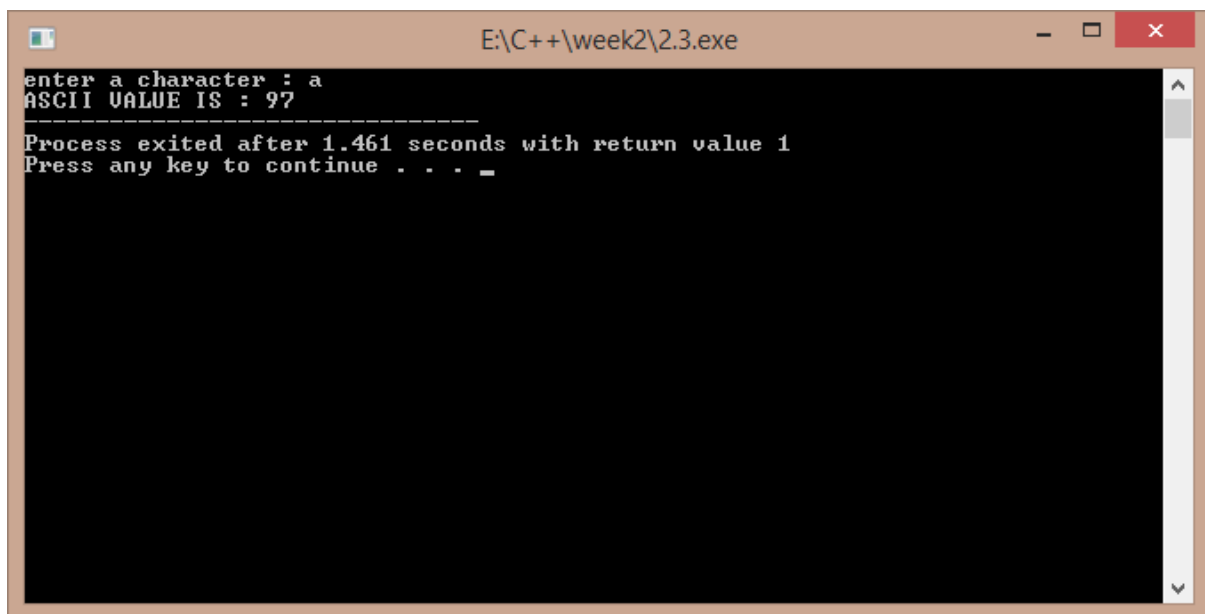
    cout<<"enter a character : ";

    cin>>ch;

    cout<<"ASCII VALUE IS : "<<(int)ch;

    return 1;
}

```



```

E:\C++\week2\2.3.exe
enter a character : a
ASCII VALUE IS : 97
-----
Process exited after 1.461 seconds with return value 1
Press any key to continue . . . _

```

2.4)

//c++ program to calculate an equation

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

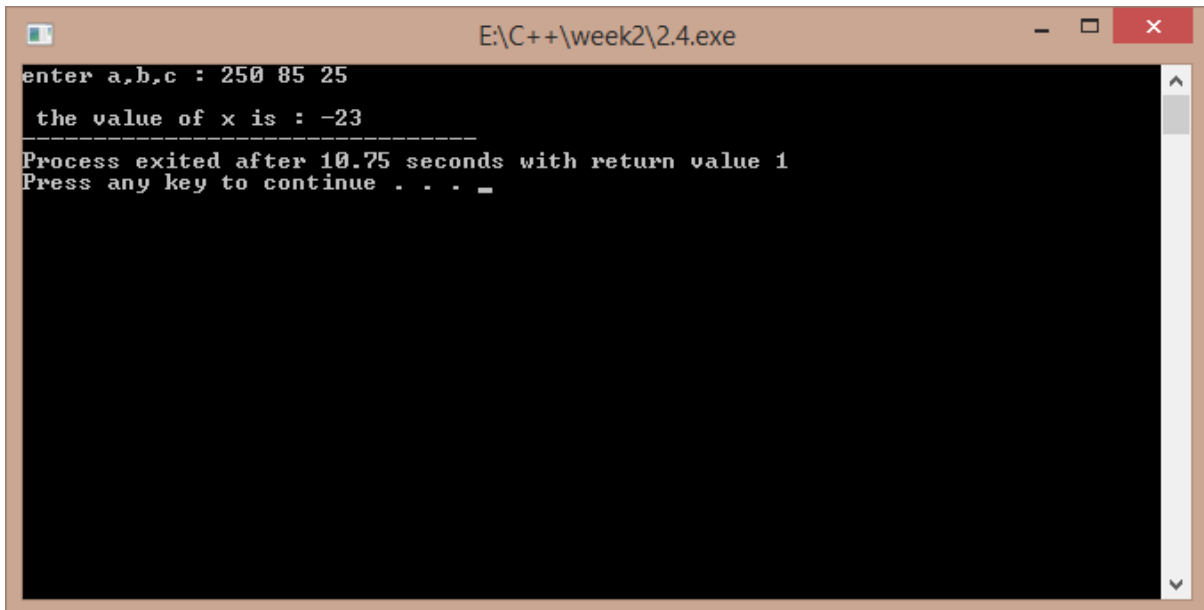
```
{
```

```
    cout<<"enter a,b,c : ";
```

```
    int a,b,c,x;
```

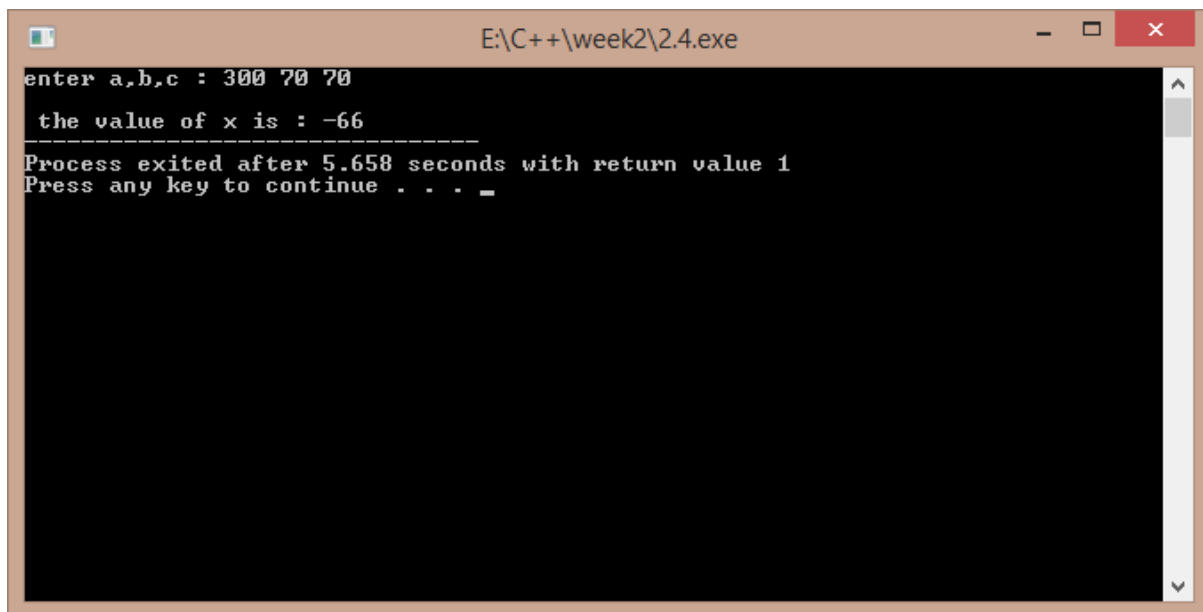
```
cin>>a>>b>>c;  
  
x=a/b-c;  
  
cout<<"\n the value of x is : "<<x;  
  
return 1;  
  
}
```

a)



```
E:\C++\week2\2.4.exe  
enter a,b,c : 250 85 25  
the value of x is : -23  
-----  
Process exited after 10.75 seconds with return value 1  
Press any key to continue . . . _
```

b)



```
enter a,b,c : 300 70 70
the value of x is : -66
-----
Process exited after 5.658 seconds with return value 1
Press any key to continue . . . _
```

2.5)

//c++ program to convert Fahrenheit to Celsius

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    float c,f;
```

```
    cout<<"enter the temp in fahrenheit : ";
```

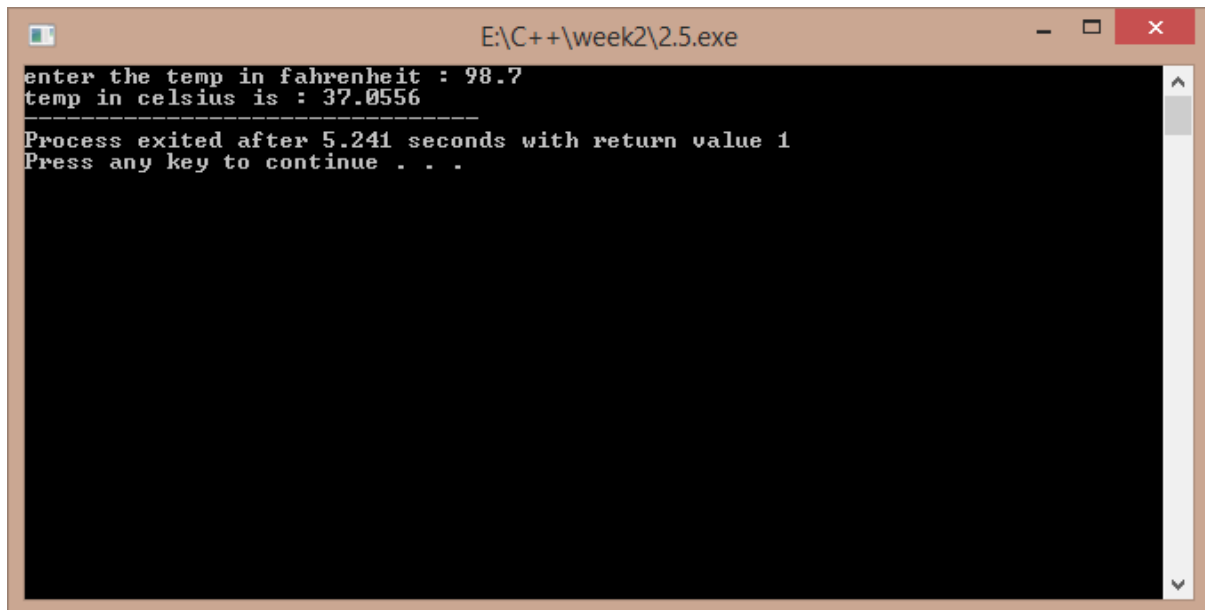
```
    cin>>f;
```

```
    c=(5/9)*(f-32);
```

```
    cout<<"temp in celsius is : "<<c;
```

```
    return 1;
```

```
}
```



```
E:\C++\week2\2.5.exe
enter the temp in fahrenheit : 98.7
temp in celsius is : 37.0556
-----
Process exited after 5.241 seconds with return value 1
Press any key to continue . . .
```

2.6)

/*c++ program to convert Fahrenheit to Celsius

Using objects created from a class */

```
#include<iostream>
```

```
using namespace std;
```

```
class temp
```

```
{
```

```
    float f,c;
```

```
    public:
```

```
        void get();
```

```
        void cel();
```

```
};
```

```
void temp::get()
```

```
{
```

```
    cout<<"enter temp in fahrenheit : ";
```

```
    cin>>f;
```

```
}
```

```

void temp::cel()
{
    c=5*(f-32)/9;

    cout<<"temp in celcius is : "<<c;
}

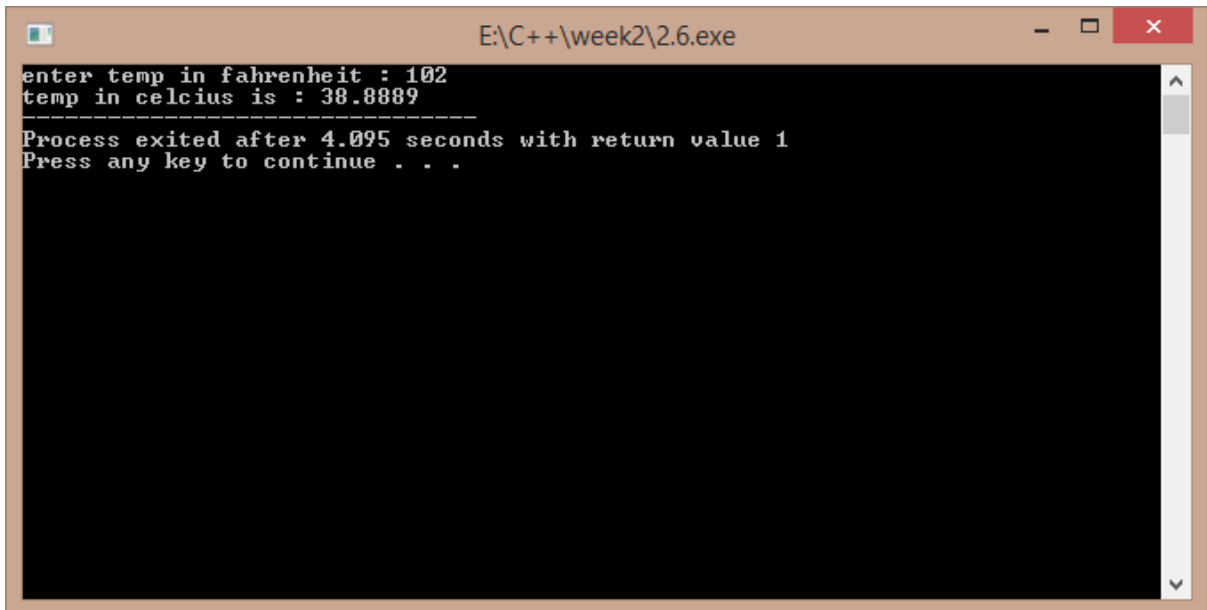
int main()
{
    temp t;

    t.get();

    t.cel();

return 1;
}

```



```

E:\C++\week2\2.6.exe
enter temp in fahrenheit : 102
temp in celcius is : 38.8889
-----
Process exited after 4.095 seconds with return value 1
Press any key to continue . . .

```

DEBUGGING EXERCISE

2.1)

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int i=0;
```

```
    i=i+1;
```

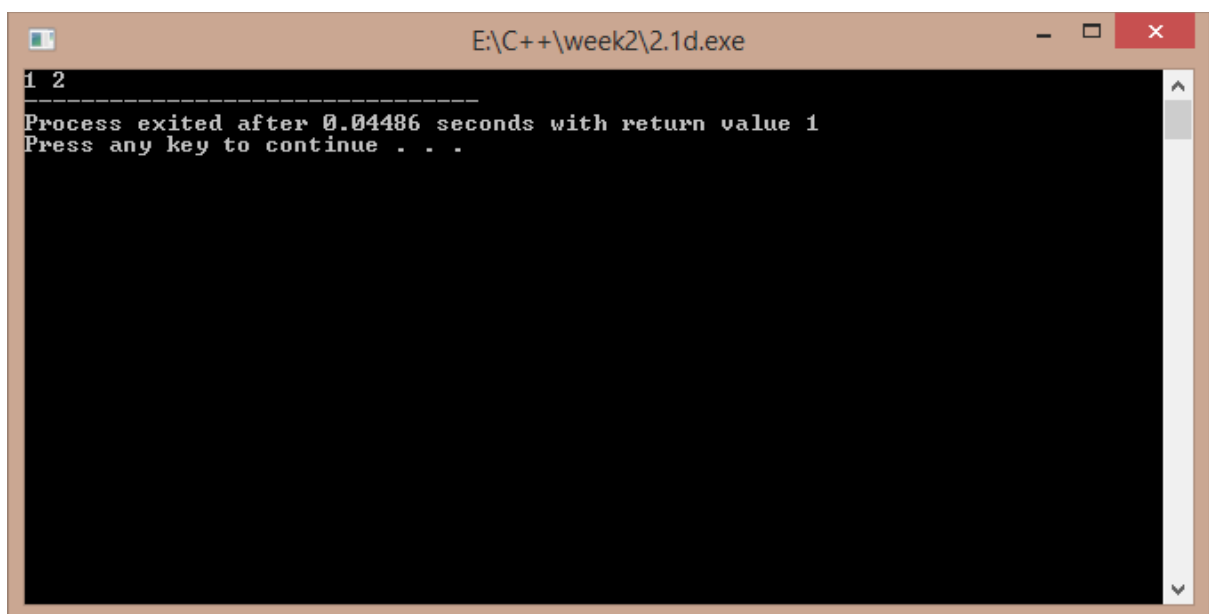
```
    cout<<i<<" ";
```

```
    /*comment\*/i=i+1;           //7th line of program
```

```
    cout<<i;
```

```
}
```

'/' should be removed from the 7th line



2.2)

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    short i=2500,j=3000;
```

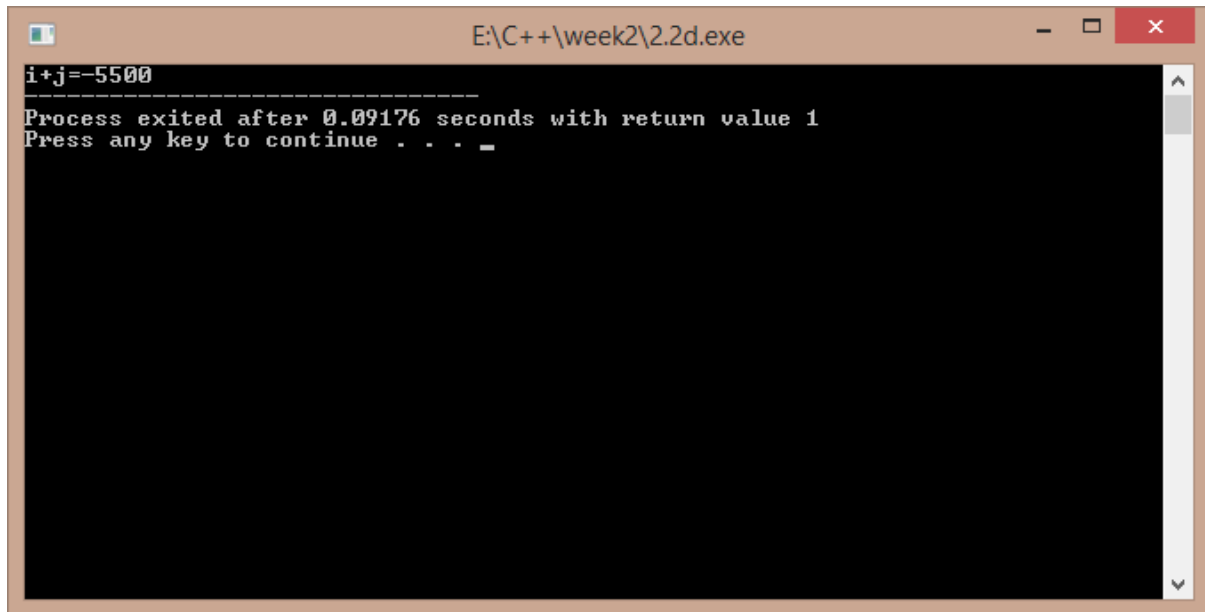


```
cout<<"i+j="<<-(i+j);           //6th line
```

```
return 1;
```

```
}
```

In 6th line insertion operator must be used , not the extraction operator ..



```
i+j=-5500
-----
Process exited after 0.09176 seconds with return value 1
Press any key to continue . . . _
```

2.3)

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int i=10,j=5;
```

```
    int modResult=0;
```

```
    int divResult=0;
```

```
    modResult=i%j;
```

```
    cout<<modResult<<" ";
```

```
    divResult=i/modResult;           //10th line
```

```
    cout<<divResult;
```

```
    return 1;
```

```
}
```

This code will generate a compiler error because in tenth line I is being divided by zero ..