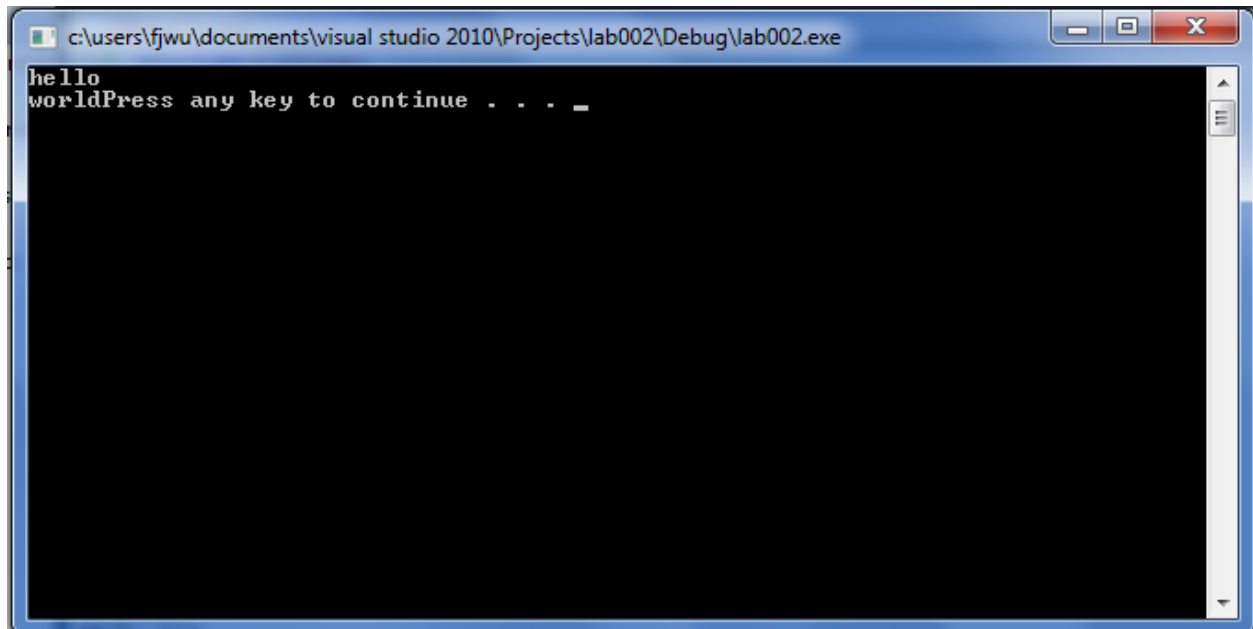# Task-01

Compile all sample programs and note down the output of each program.

Sample-01

Code:

```cpp
#include<iostream>
using namespace std;
int main(){
    cout<<"hello"<<endl<<"world";
    system("pause");
    return 0;
}
```

Output:

Sample-02
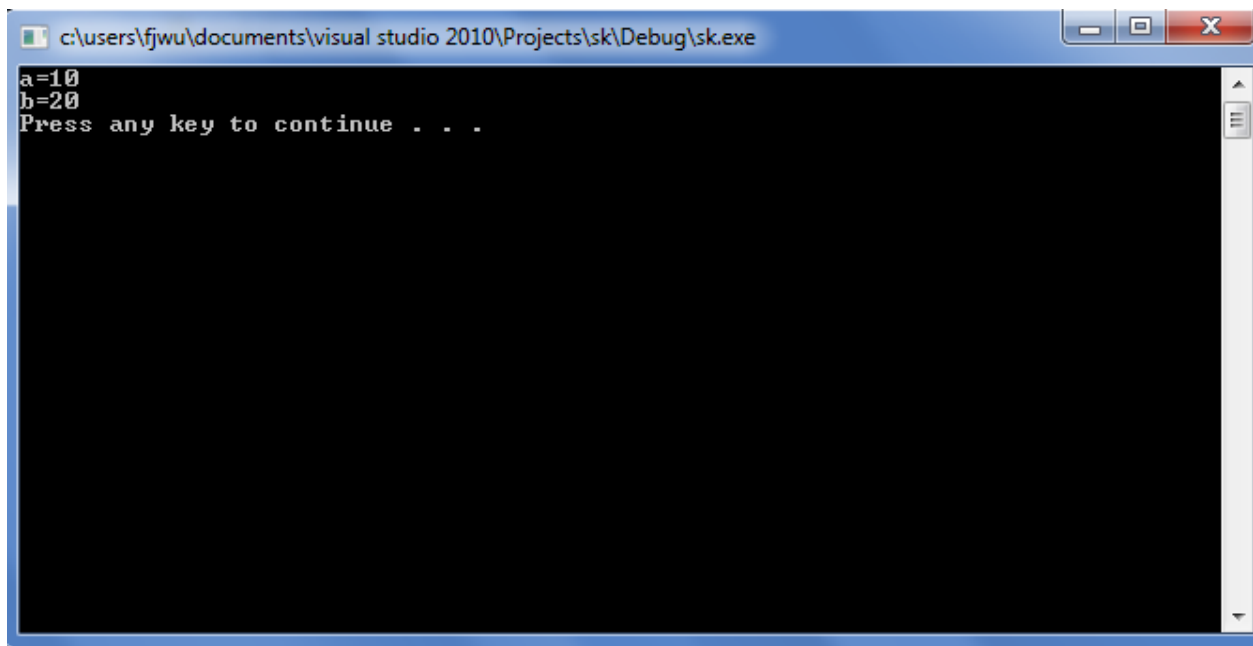
Code:

```cpp
#include<iostream>
using namespace std;
int main(){
        int a,b;
        a=10;
        b=20;
        cout<<"a="<<a<<endl;
        cout<<"b="<<b<<endl;
        system("pause");
        return 0;
}
```

Output:


```
c:\users\fjwu\documents\visual studio 2010\Projects\sk\Debug\sk.exe

a=10
b=20
Press any key to continue . . .
```
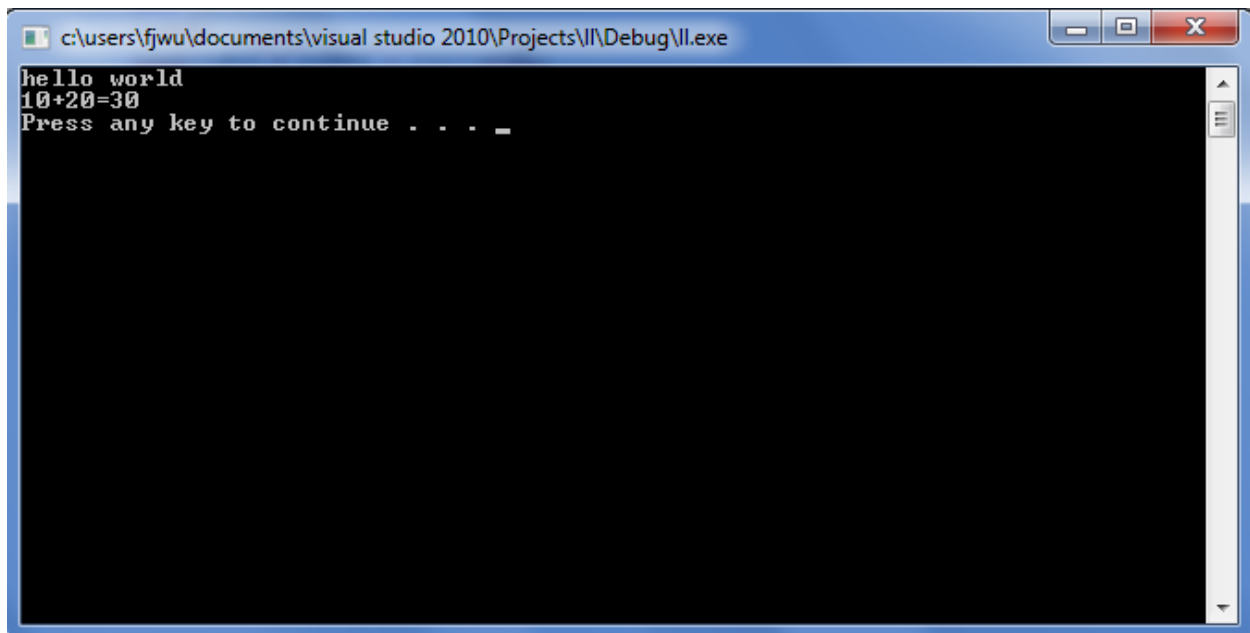
Sample-03

Code:

```cpp
#include "stdafx.h"
#include<iostream>
using namespace std;
int _tmain(int argc, _TCHAR* argv[])
{
cout<<"hello world"<<endl;
       int a=10;
       int b=20;
       int c;
       c=a+b;
       cout<<a<<"+"<<b<<"="<<c<<endl;
       system("pause");
       return 0;
}
```
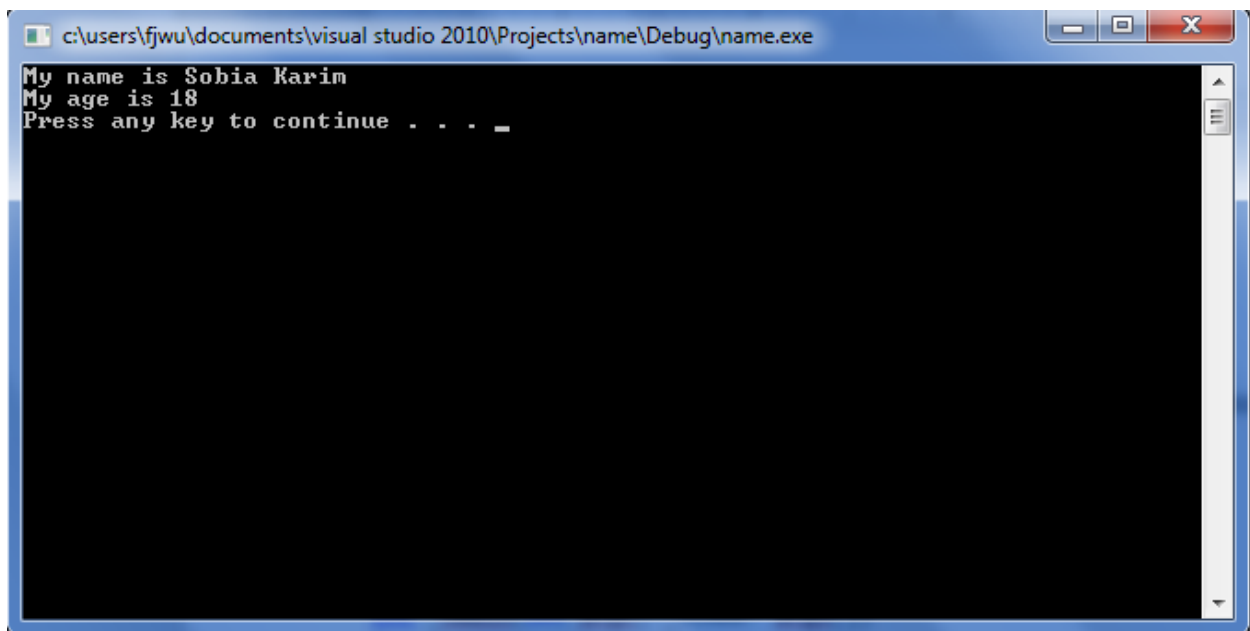
Output:

Task-02

Write a program that displays your name and age on the screen, age must be stored in some integer.

Code:

```
#include "stdafx.h"
#include<iostream>
using namespace std;
int _tmain(int argc, _TCHAR* argv[])
{
    int a=18;
    cout<<"My name is Sobia Karim"<<endl;
    cout<<"My age is "<<a<<endl;
    system("pause");
    return 0;
}
```
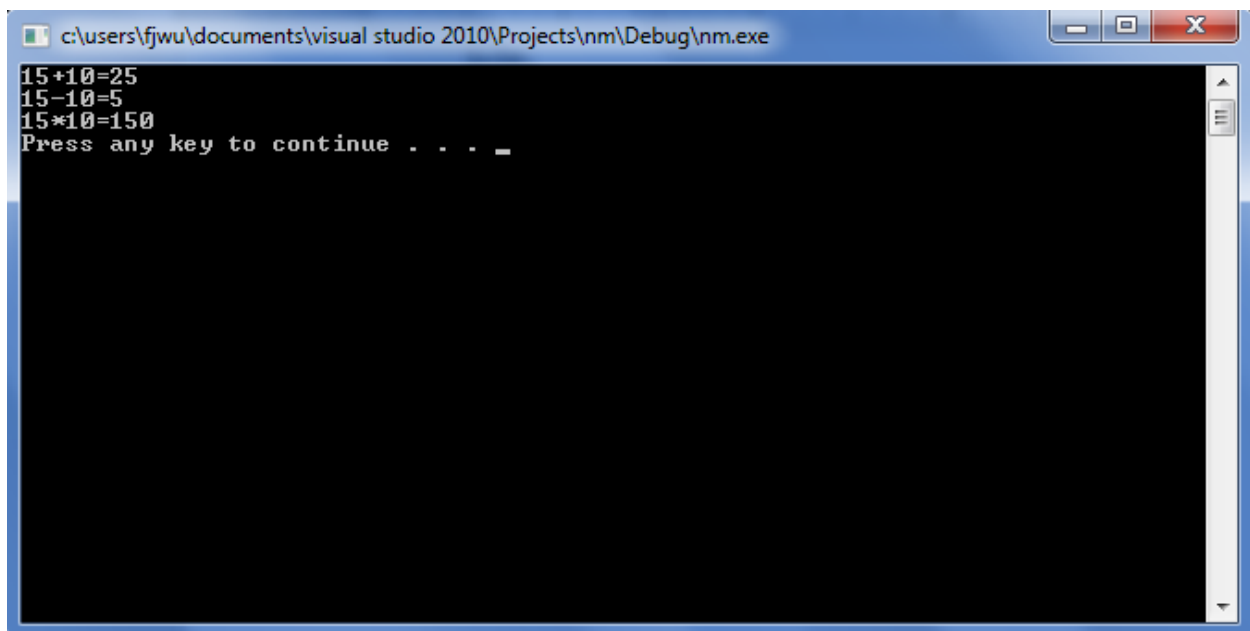
Output:

Task-03

Write a program to declare two integers, assign them random values perform the arithmetic operations Addition, subtraction and multiplication and display the result on the screen as shown in sample output.

Code:

```cpp
#include "stdafx.h"
#include<iostream>
using namespace std;
int _tmain(int argc, _TCHAR* argv[])
{
	int a;
	int b;
	a=15;
	b=10;
	cout<<a<<"+"<<b<<"="<<a+b<<endl;
	cout<<a<<"-"<<b<<"="<<a-b<<endl;
	cout<<a<<"*"<<b<<"="<<a*b<<endl;
	system("pause");
	return 0;
}
```

Output:

```
c:\users\fjwu\documents\visual studio 2010\Projects\nm\Debug\nm.exe

15+10=25
15-10=5
15*10=150
Press any key to continue . . . _
```
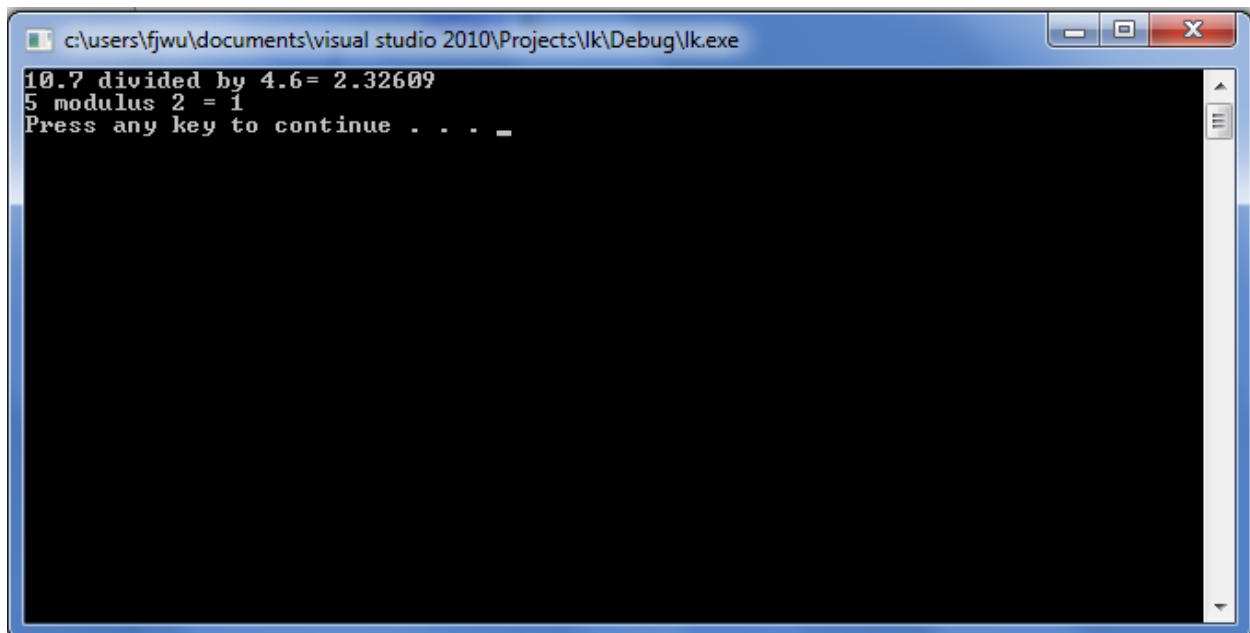
Task-04

Write a program to declare 2 int variables and 2 float variables perform the arithmetic operations Division on flost variables , modulus on int variables and display the result on the screen.

Code:

```cpp
#include "stdafx.h"
#include<iostream>
using namespace std;
int _tmain(int argc, _TCHAR* argv[])
{
	int a,b;
	float c,d;
	a=5,b=2;
	c=10.7, d=4.6;
	cout<<c<<" divided by "<<d<< "= "<<c/d<<endl;
	cout<<a<<" modulus "<<b<<" = "<<a%b<<endl;
	system("pause");
	return 0;
}
```

Output:


```
c:\users\fjwu\documents\visual studio 2010\Projects\lk\Debug\lk.exe

10.7 divided by 4.6= 2.32609
5 modulus 2 = 1
Press any key to continue . . . _
```

Task-05

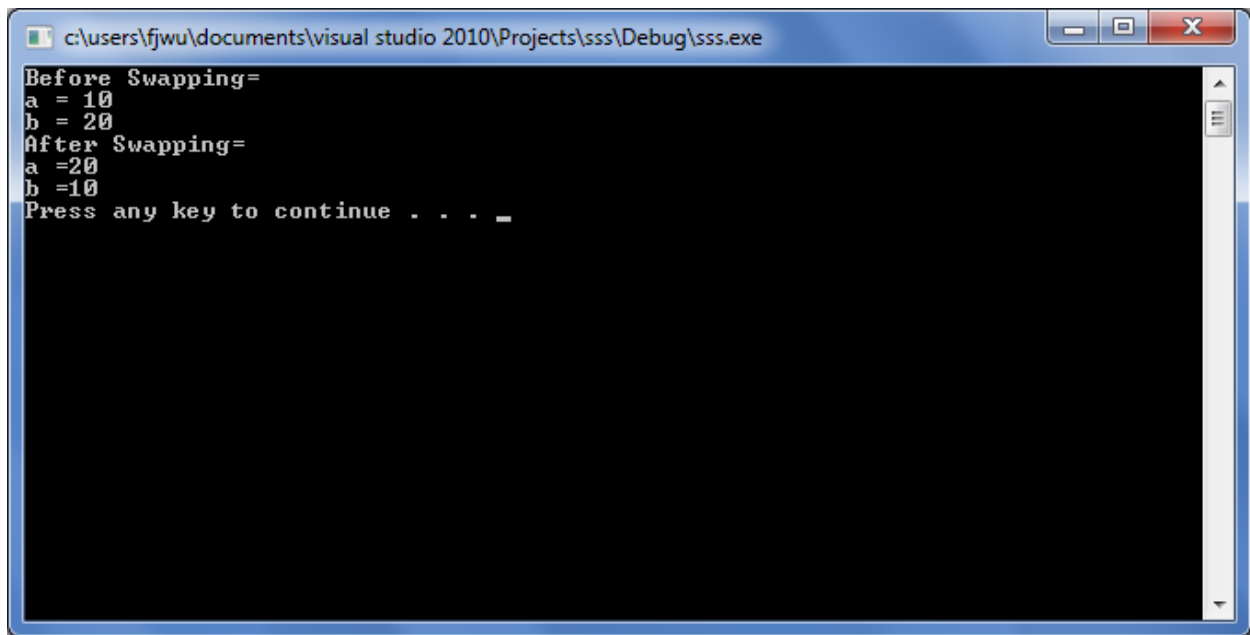Write a program to assign values to two variables by assignment statement. Swap the values of both the variables

Code:

```cpp
#include "stdafx.h"
#include<iostream>
using namespace std;
int _tmain(int argc, _TCHAR* argv[])
{
        int a=10;
        int b=20;
        int c=0;
        cout<<"Before Swapping="<<endl;
        cout<<"a = "<<a<<endl;
        cout<<"b = "<<b<<endl;

        c=a;
        a=b;
        b=c;
        cout<<"After Swapping="<<endl;
        cout<<"a ="<<a<<endl;
        cout<<"b ="<<b<<endl;

        system("pause");
        return 0;
}
```

Output: