

## Task-01

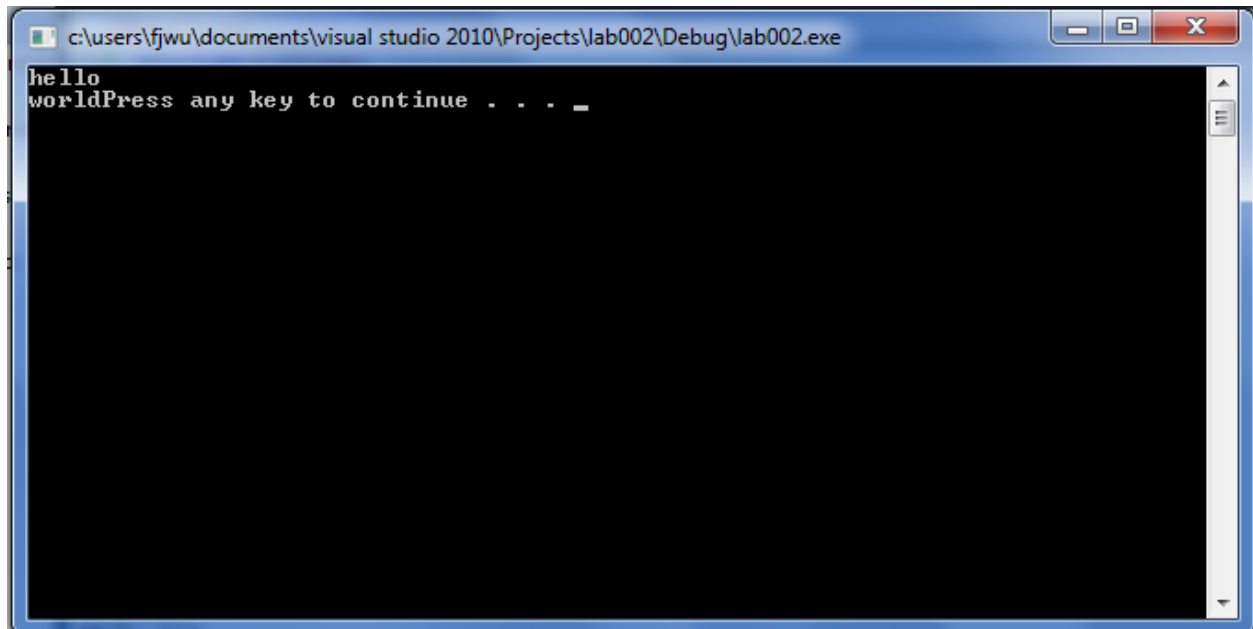
Compile all sample programs and note down the output of each program.

### Sample-01

#### Code:

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

#### Output:

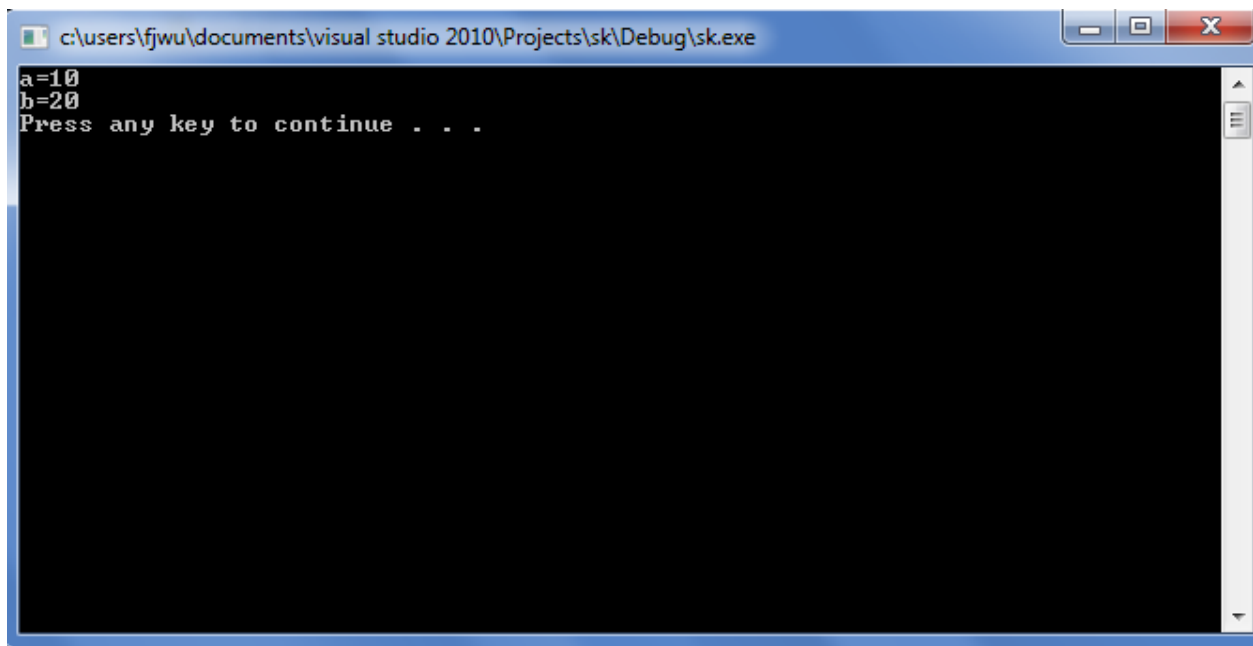


## Sample-02

### Code:

```
#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:

A screenshot of a Windows command prompt window. The title bar at the top reads "c:\users\fjwu\documents\visual studio 2010\Projects\sk\Debug\sk.exe". The command prompt area is black with white text. The output displayed is: "a=10", "b=20", and "Press any key to continue . . .". The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

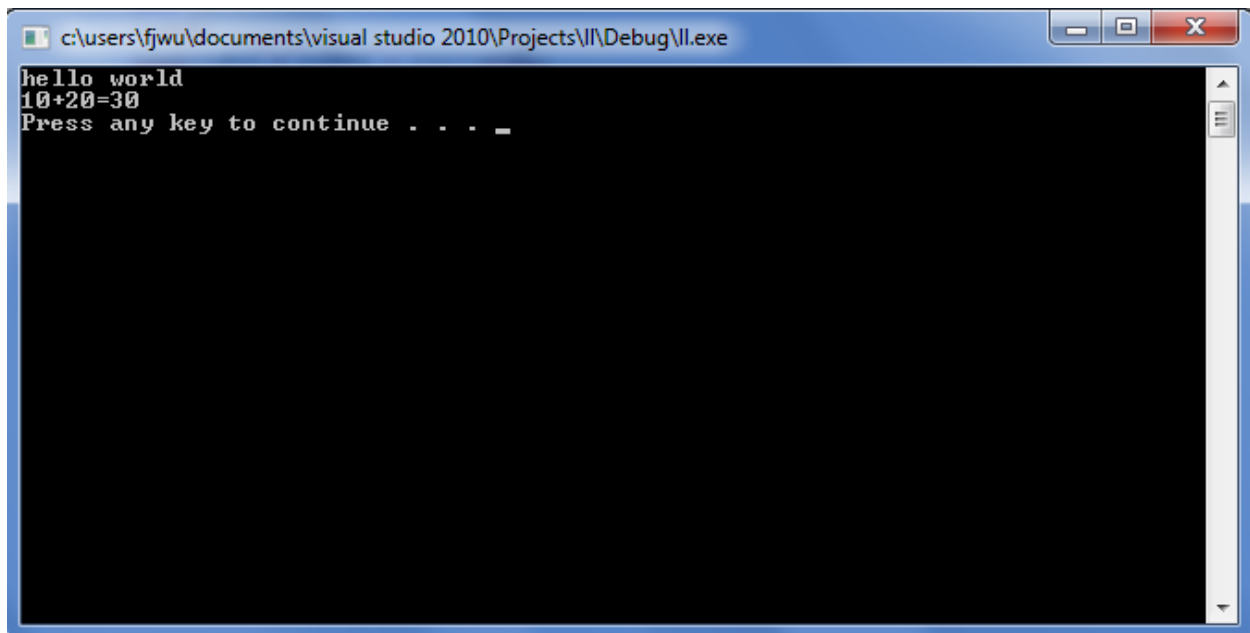
```
a=10
b=20
Press any key to continue . . .
```

### Sample-03

#### Code:

```
#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:

A screenshot of a Windows command prompt window. The title bar shows the file path "c:\users\fjwu\documents\visual studio 2010\Projects\11\Debug\11.exe". The command prompt displays the output of the program: "hello world", "10+20=30", and "Press any key to continue . . . \_". The text is displayed in a monospaced font on a black background. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

```
c:\users\fjwu\documents\visual studio 2010\Projects\11\Debug\11.exe
hello world
10+20=30
Press any key to continue . . . _
```

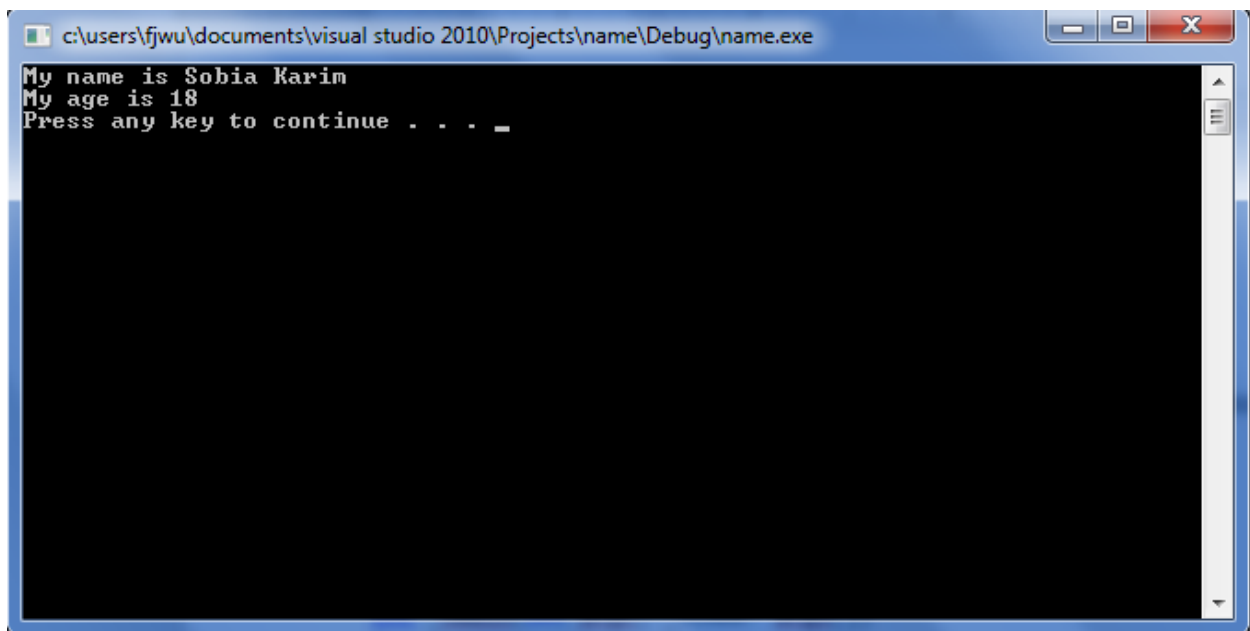
## Task-02

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:

A screenshot of a Windows command prompt window. The title bar shows the file path: c:\users\fjwu\documents\visual studio 2010\Projects\name\Debug\name.exe. The window has standard Windows window controls (minimize, maximize, close). The command prompt area is black with white text. The output of the program is displayed on three lines: "My name is Sobia Karim", "My age is 18", and "Press any key to continue . . . \_". The cursor is positioned at the end of the third line.

```
c:\users\fjwu\documents\visual studio 2010\Projects\name\Debug\name.exe
My name is Sobia Karim
My age is 18
Press any key to continue . . . _
```

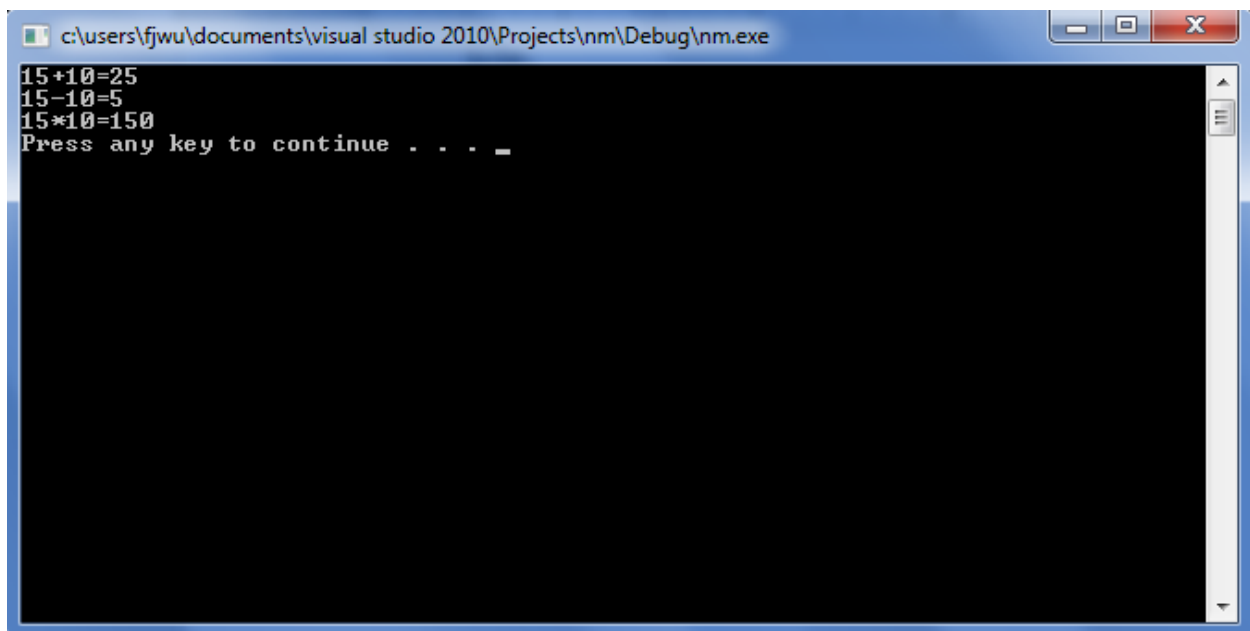
### Task-03

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:

```
#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:

A screenshot of a Windows command prompt window. The title bar shows the file path: c:\users\fjwu\documents\visual studio 2010\Projects\nm\Debug\nm.exe. The window has standard Windows window controls (minimize, maximize, close). The command prompt displays the following output: 15+10=25, 15-10=5, 15\*10=150, and Press any key to continue . . . . . The cursor is positioned at the end of the last line.

```
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 . . . . .
```

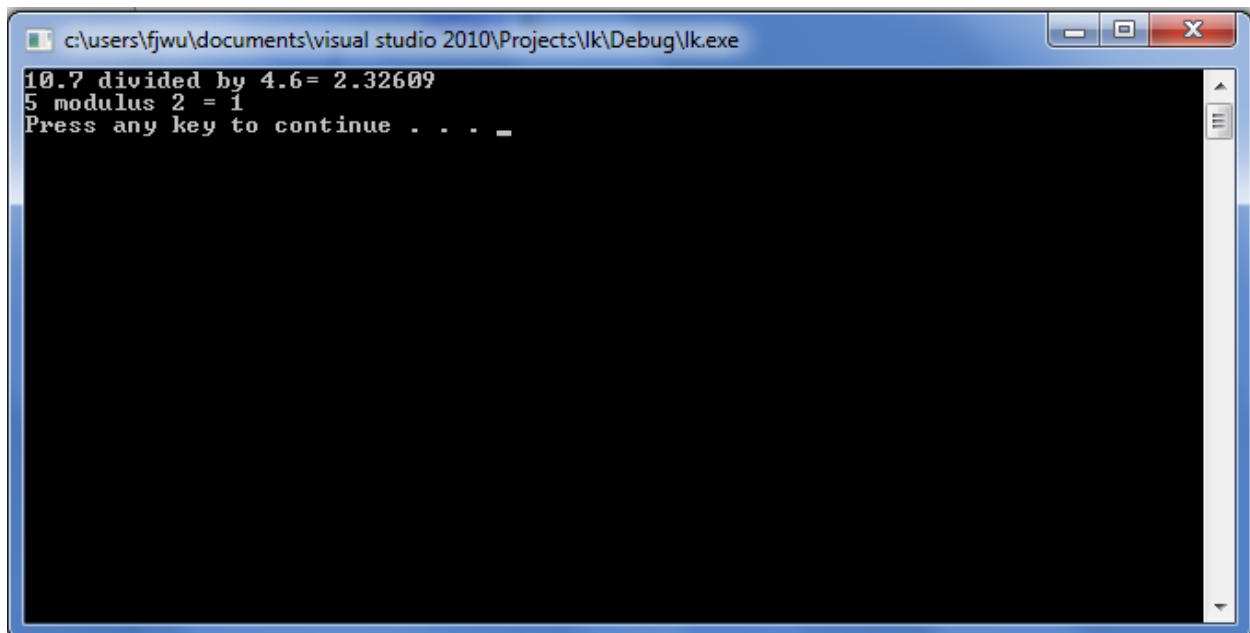
## Task-04

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

### Code:

```
#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:



The screenshot shows a Windows command prompt window with the title bar "c:\users\fjwu\documents\visual studio 2010\Projects\lk\Debug\lk.exe". The window contains the following text:

```
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

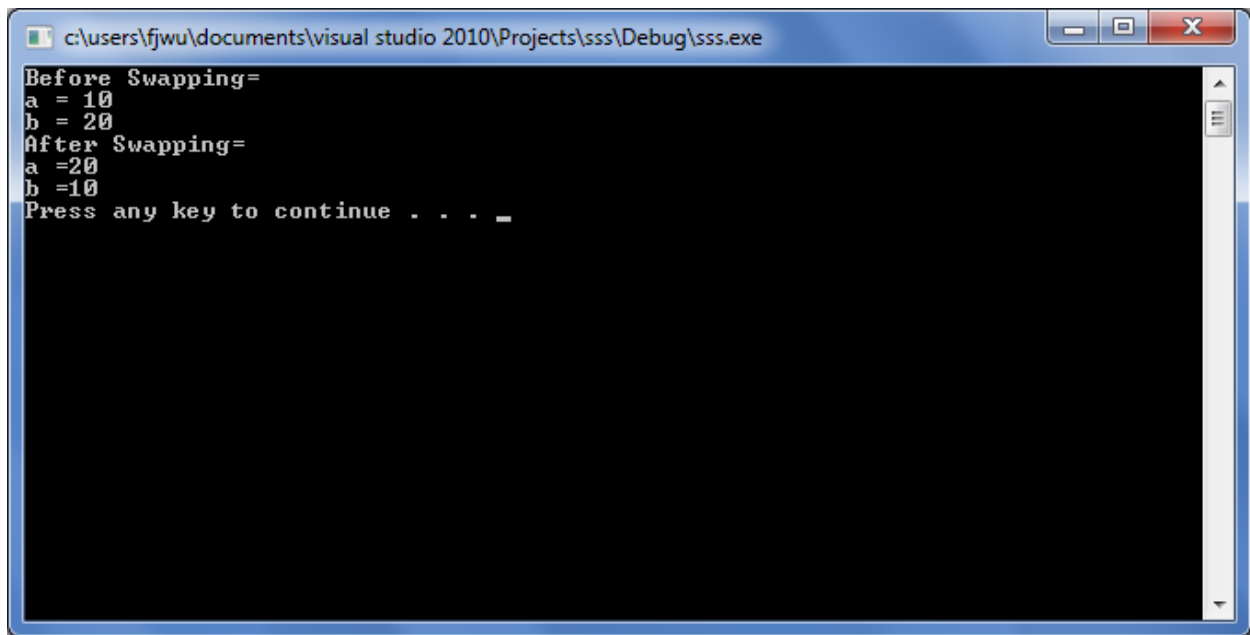
### Code:

```
#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:



```
c:\users\fjwu\documents\visual studio 2010\Projects\sss\Debug\sss.exe
Before Swapping=
a = 10
b = 20
After Swapping=
a =20
b =10
Press any key to continue . . . _
```