

Lab # 02



Programming Fundamentals Lab

Submitted by:

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(2022-BSE-079)

1st Semester

Task-1

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

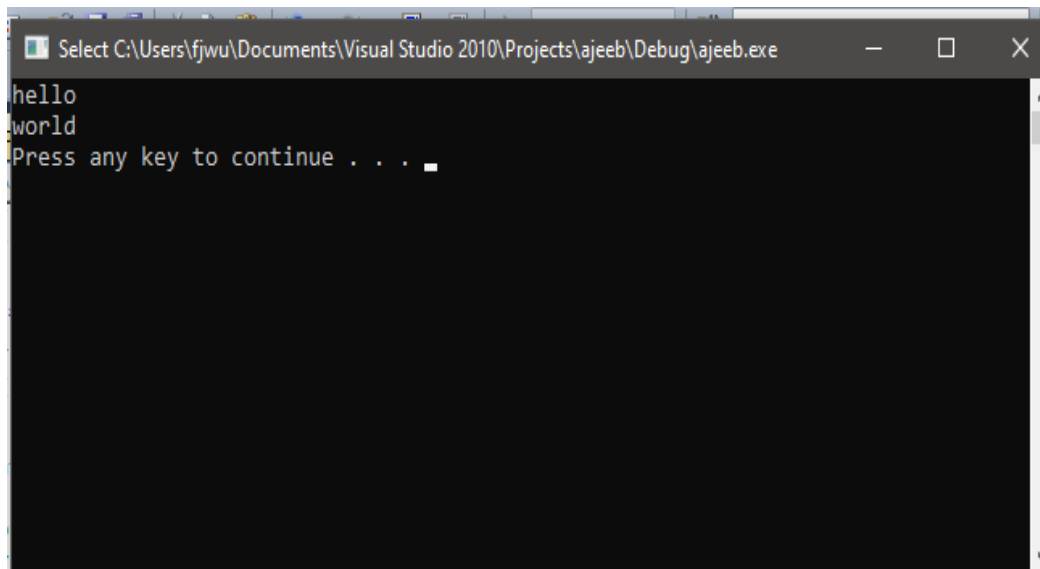
Sample-1

Code:

```
#include "stdafx.h"
#include<iostream>
using namespace std;
//int main()

int _tmain(int argc, _TCHAR* argv[])
{
    cout<<"hello"<<endl<<"world"<<endl;
    system("pause");
    return 0;
}
```

Output:



```
Select C:\Users\fwu\Documents\Visual Studio 2010\Projects\ajeeb\Debug\ajeeb.exe
hello
world
Press any key to continue . . .
```

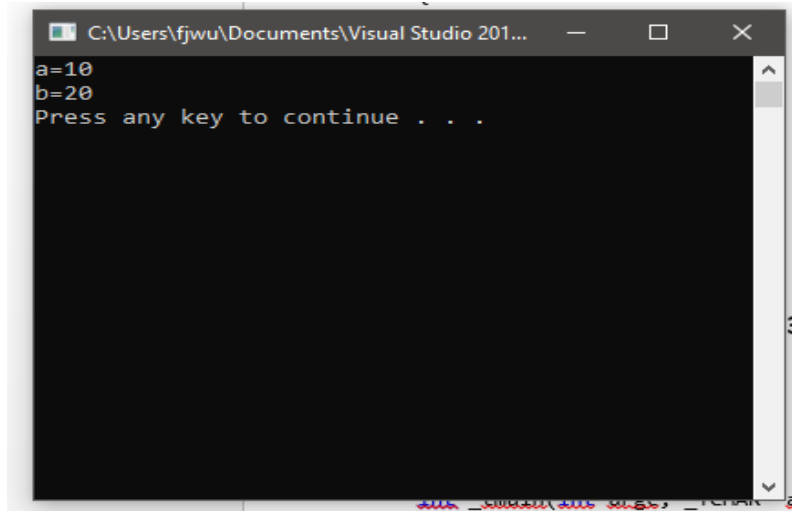
Sample-2

Code:

```
#include "stdafx.h"
#include<iostream>
using namespace std;
//int main()

int _tmain(int argc, _TCHAR* argv[])
{
    int a=10;
    int b=20;
    cout<<"a="<<a<<endl;
    cout<<"b="<<b<<endl;
    system("pause");
    return 0;
}
```

Output:



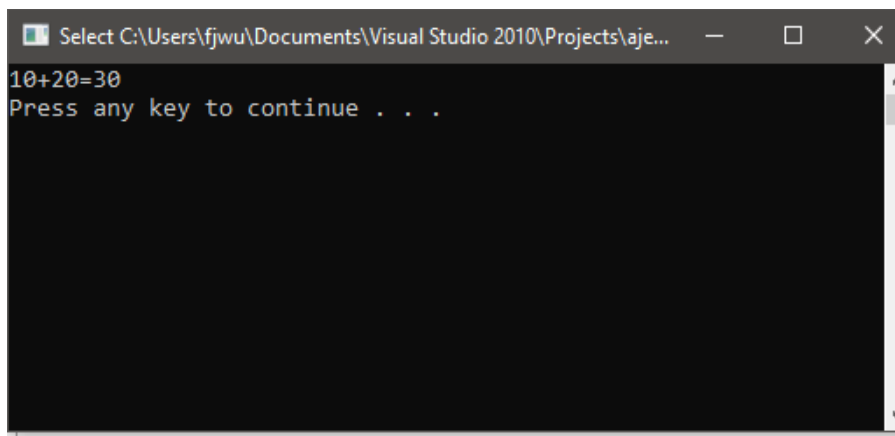
Sample-3

Code:

```
#include "stdafx.h"
#include<iostream>
using namespace std;
//int main()

int _tmain(int argc, _TCHAR* argv[])
{
    int a=10;
    int b=20;
    int c;
    c=a+b;
    cout<<a<<"+"<<b<<"="<<c<<endl;
    system("pause");
    return 0;
}
```

Output:



Task-2

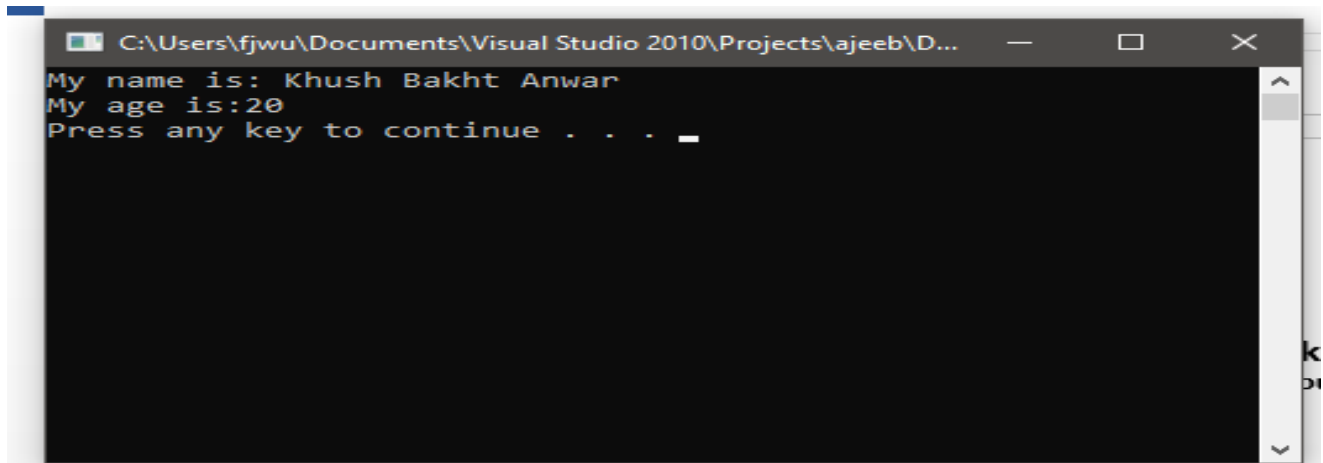
Write a program that displays your name and age on the screen, age must be stored in some integer.

Code:

```
#include "stdafx.h"
#include<iostream>
using namespace std;

int _tmain(int argc, _TCHAR* argv[])
{
    int a=20;
    cout<<"My name is: Khush Bakht Anwar"<<endl;
    cout<<"My age is:"<<a<<endl;
    system("pause");
    return 0;
}
```

Output:



Task-3

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=10;
```

```

int b=20;
cout<<a<<"+"<<b<<"="<<a+b<<endl;
cout<<a<<"-"<<b<<"="<<a-b<<endl;
cout<<a<<"*"<<b<<"="<<a*b<<endl;
cout<<"My age is:"<<a<<endl;
system("pause");
return 0;
}

```

Output:

```

C:\Users\fwu\Documents\Visual Studio 2010\Projects\ajeeb\Debug\ajeeb.exe
10+20=30
10-20=-10
10*20=200
My age is:10
Press any key to continue . . .

```

Task-4

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:

```

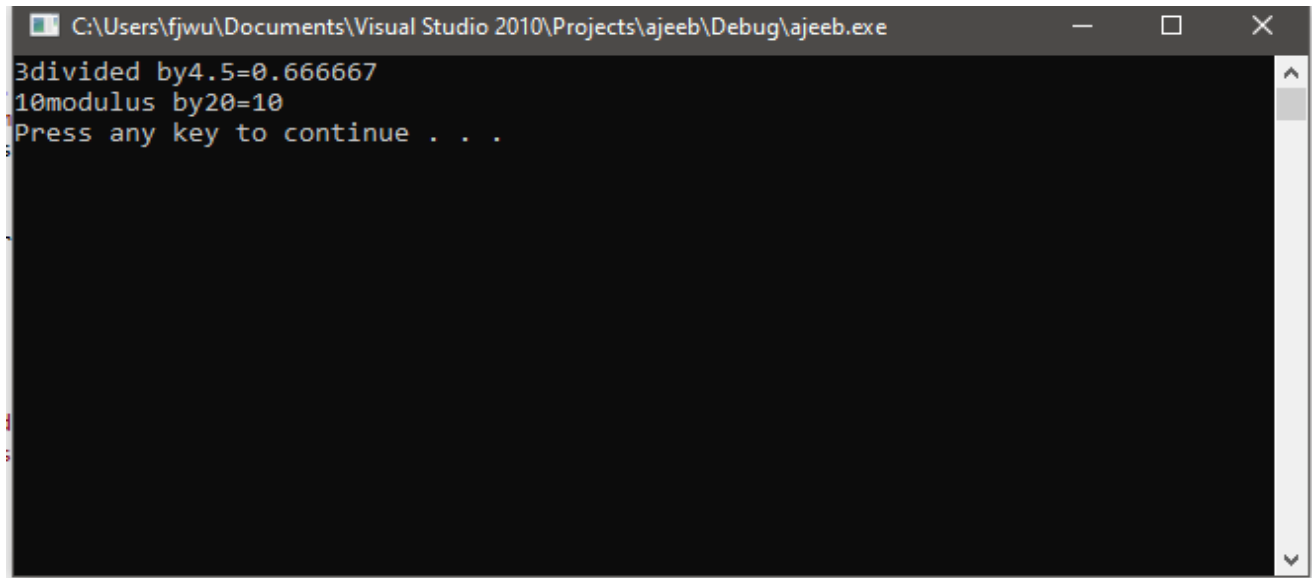
#include "stdafx.h"
#include<iostream>
using namespace std;
//int main()

int _tmain(int argc, _TCHAR* argv[])
{
int a=10;
int b=20;
float c=3.0;
float d=4.5;
cout<<c<<"divided by"<<d<<"="<<c/d<<endl;
cout<<a<<"modulus by"<<b<<"="<<a%b<<endl;
system("pause");
return 0;
}

```

```
}
```

Output:



```
C:\Users\fjwu\Documents\Visual Studio 2010\Projects\ajeeb\Debug\ajeeb.exe
3divided by4.5=0.666667
10modulus by20=10
Press any key to continue . . .
```

Task-5

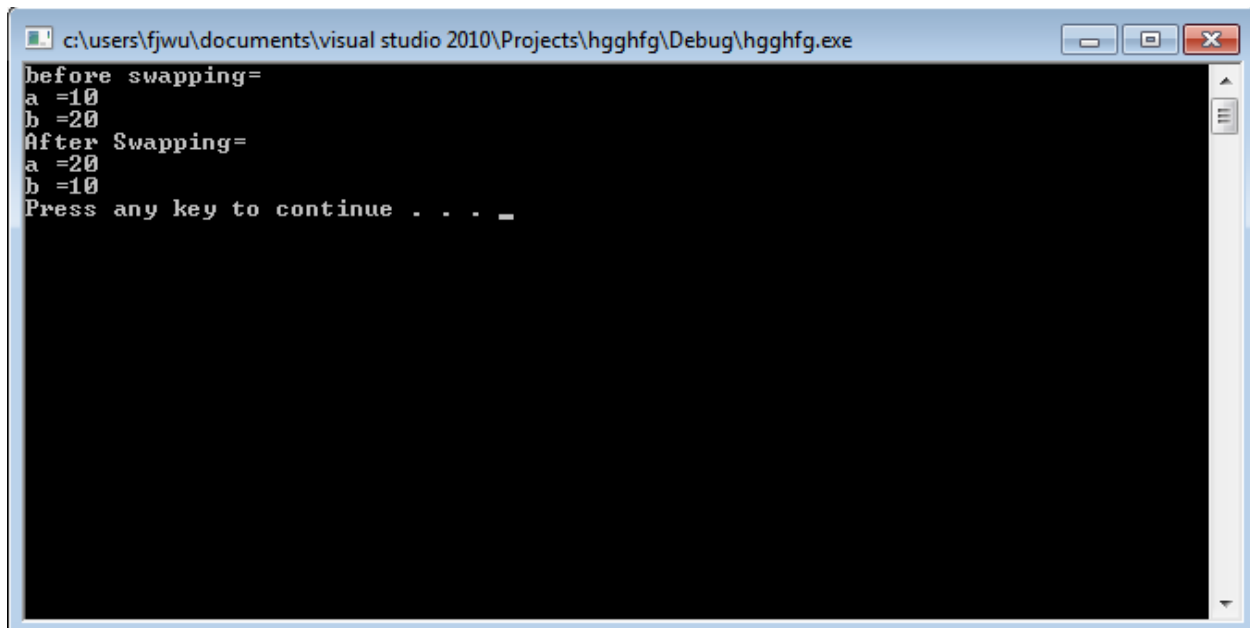
Write a program to assign values to two variables by assignment statement .Swap the value of both the variables.

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\hgghfg\Debug\hgghfg.exe  
before swapping=  
a =10  
b =20  
After Swapping=  
a =20  
b =10  
Press any key to continue . . . _
```