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# Lab Task # 2

**Task#1: Compile all sample programs and note down the output of each program**

```
#include<iostream>

using namespace std;

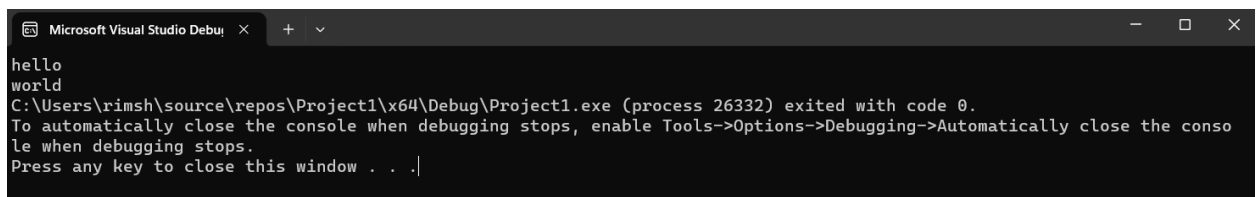
void main() {

    cout << "hello" << endl << "world";

    system("pause");

}
```

**Output:**

A screenshot of the Microsoft Visual Studio Debug Console window. The window title is "Microsoft Visual Studio Debug Console". The output text is: "hello", "world", "C:\Users\rimsh\source\repos\Project1\x64\Debug\Project1.exe (process 26332) exited with code 0.", "To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.", and "Press any key to close this window . . .".

```
Microsoft Visual Studio Debug Console
hello
world
C:\Users\rimsh\source\repos\Project1\x64\Debug\Project1.exe (process 26332) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

```
#include<iostream>

using namespace std;

void main() {

    int a;

    int b;
```

```
a = 10;

b = 20;

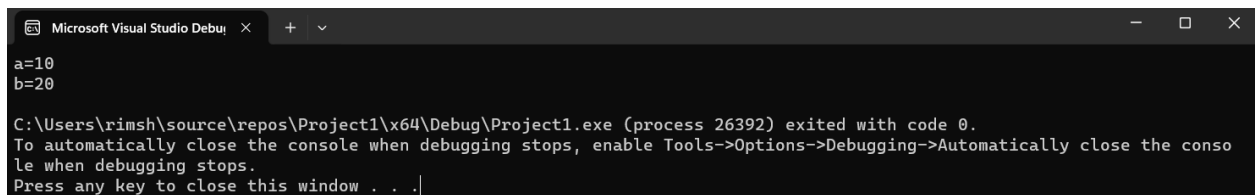
cout << "a=" << a << endl;

cout << "b=" << b << endl;

system("pause");

}
```

### Output:

A screenshot of a Visual Studio Debug Console window. The window title is "Microsoft Visual Studio Debug Console". The output text is: "a=10", "b=20", "C:\Users\rimsh\source\repos\Project1\x64\Debug\Project1.exe (process 26392) exited with code 0.", "To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.", and "Press any key to close this window . . .".

```
Microsoft Visual Studio Debug Console
a=10
b=20
C:\Users\rimsh\source\repos\Project1\x64\Debug\Project1.exe (process 26392) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

```
#include<iostream>

using namespace std;

void main() {

    cout << "hello world" << endl;

    int a = 10;

    int b = 20;

    int c;

    c = a + b;

    cout << a << "+" << b << "=" << c << endl;

    system("pause");

}
```

### Output:



```
C:\Users\rimsh\source\repos\ x + v
hello world
10+20=30
Press any key to continue . . . |
```

**Task#2: Write a program that displays your name and age on the screen, age must be stored in some integer.**

**Sample output: my name is Ali**

**my age is 20**

```
#include<iostream>

using namespace std;

void main() {

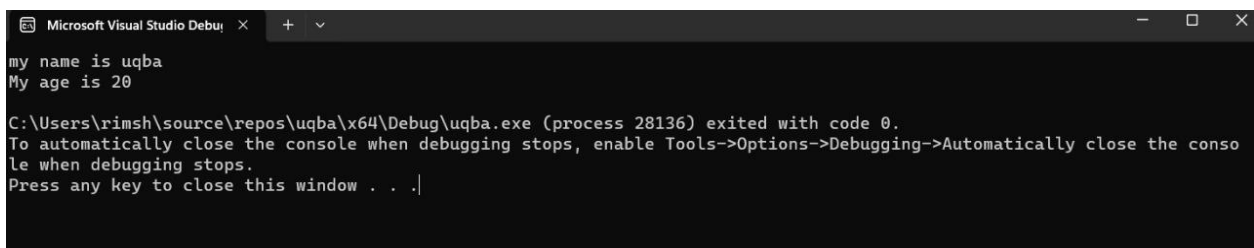
    int age = 20;

    cout << "my name is uqba" << endl;

    cout << "My age is " << age << endl;

}
```

**Output:**



```
Microsoft Visual Studio Debug x + v
my name is uqba
My age is 20

C:\Users\rimsh\source\repos\uqba\x64\Debug\uqba.exe (process 28136) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . . |
```

**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.**

**Sample Output:**  
**Suppose A=10 B=5**  
**Output**  
**Addition of 10 and 5 = 15**  
**Subtraction of A and B is 5**  
**10\*5=50**

```
#include<iostream>

using namespace std;

void main() {

    int A = 10, B = 5, result;

    result = A + B;

    cout << "Addition of " << A << " and " << B << " = " << result << endl;

    result = A - B;

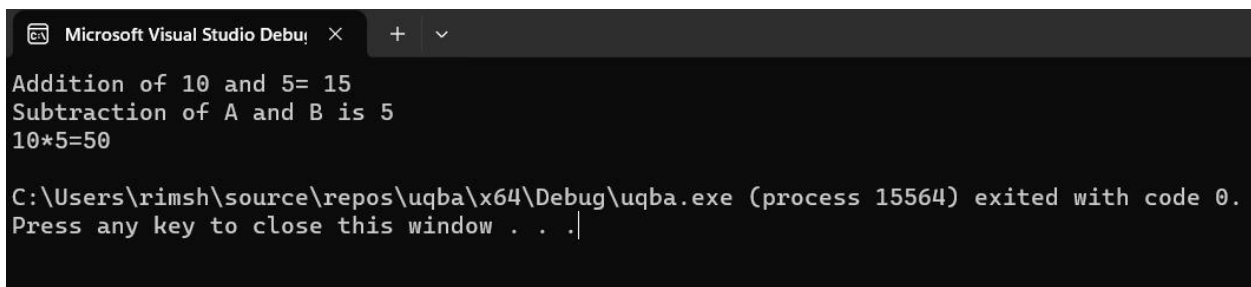
    cout << "Subtraction of A and B is " << result << endl;

    result = A * B;

    cout << A << "*" << B << " = " << result << endl;

}
```

**Output:**

A screenshot of the Microsoft Visual Studio Debug Console window. The window title is "Microsoft Visual Studio Debug Console". The output text is as follows:  
Addition of 10 and 5= 15  
Subtraction of A and B is 5  
10\*5=50  
  
C:\Users\rimsh\source\repos\uqba\x64\Debug\uqba.exe (process 15564) exited with code 0.  
Press any key to close this window . . .|

**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.**

**Sample Output:**

**Suppose A=10.0 B=3.0**

**C=20 D=9**

**Output**

**Division of A and B = 3.33**

**20 mod 9 = 2**

```
#include<iostream>
```

```
using namespace std;
```

```
void main() {
```

```
    float A,B, division;
```

```
    int C,D, modulus;
```

```
    cout << "Enter decimal value1" << endl;
```

```
    cin >> A;
```

```
    cout << "Enter decimal value2" << endl;
```

```
    cin >> B;
```

```
    cout << "Enter integer value1" << endl;
```

```
    cin >> C;
```

```
    cout << "Enter integer value2" << endl;
```

```
    cin >> D;
```

```
    division = A / B;
```

```
    cout << "Division of A and B = " << division << endl;
```

```
    modulus = C % D;
```

```
    cout << C << " mod " << D << " = " << modulus << endl;
```

```
}
```

### Output:

A screenshot of the Microsoft Visual Studio Debug Console window. The window title is "Microsoft Visual Studio Debug". The console output shows the following text: "enter first value", "10.0", "enter second value", "3.0", "enter x", "20", "enter y", "9", "Division of A and B = 3.33333", "20 mod 9 = 2", and a message indicating the program exited with code 0. The message also provides instructions on how to automatically close the console when debugging stops.

```
Microsoft Visual Studio Debug
enter first value
10.0
enter second value
3.0
enter x
20
enter y
9
Division of A and B = 3.33333
20 mod 9 = 2
C:\Users\rimsh\source\repos\uqba\x64\Debug\uqba.exe (process 4880) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

**Task#5: Write a program to assign values to two variables by assignment statement.**

**Swap the values of  
both the variables:**

**Sample Output:**

**A=10**

**B=20**

**After Swapping**

**A=20**

**B=10**

```
#include<iostream>
```

```
using namespace std;
```

```
void main() {
```

```
    int A = 10, B = 20, C;
```

```
    cout << "Before Swapping" << endl;
```

```
    cout << "A=" << A << endl;
```

```
    cout << "B=" << B << endl;
```

```
    C = A;
```

```
    A = B;
```

```
    B = C;
```

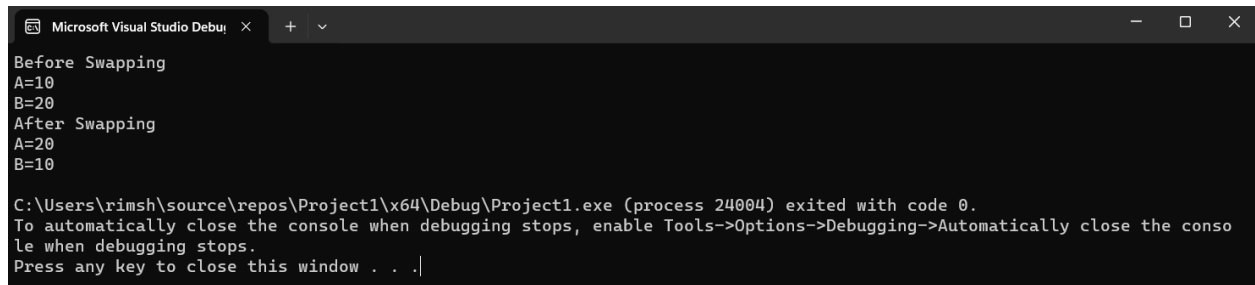
```
    cout << "After Swapping" << endl;
```

```
cout << "A=" << A << endl;

cout << "B=" << B << endl;

}
```

### Output:

A screenshot of the Microsoft Visual Studio Debug Console window. The window title is "Microsoft Visual Studio Debug Console". The output text is as follows:

```
Before Swapping
A=10
B=20
After Swapping
A=20
B=10

C:\Users\rish\source\repos\Project1\Debug\Project1.exe (process 24004) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```