

```

//Jorge Rivas
#include <iostream>
#include <iomanip>
#include <string>

using namespace std;
int CompSum(int& x, int& y, int& z);
void CompAve(int& x, int& y, int& z, float& Average);
void CompAve(int& x, int& y, int& z, float& Average)
{
    Average = (x + y + z) / 3.0;
}
int CompSum(int& x, int& y, int& z) { return (x + y + z); }
void Display(int& x, int& y, int& z, int& Sum, float& Average)
{
    cout << x << " + " << y << " + " << z << " = " << Sum << endl;
    cout << "(" << x << " + " << y << " + " << z << ")" << "/3" << " = " << Average <<
endl;
}
void Read(int& x, int& y, int& z)
{
    cout << "Enter three numbers: " << endl;
    cin >> x >> y >> z;
}
void ReadData(int& x, int& y, int& z)
{
    cout << "Enter three numbers" << endl;
    cin >> x >> y >> z;
}
void FindSumAve(int x, int y, int z, int& Sum, float& Average)
{
    Average = (x + y + z) / 3.0;
    Sum = (x + y + z);
}
void ShowSumAve(int Sum, int Average)
{
    cout << "Sum = " << Sum << endl;
    cout << "Average = " << Average << endl;
}
void FindMaxMin(int& max, int& min, int x, int y, int z)
{
    if (x >= y && x >= z) max = x;
    if (y >= x && y >= z) max = y;
    if (z >= x && z >= y) max = z;
    if (x <= y && x <= z) min = x;
    if (y <= x && y <= z) min = y;
    if (z <= x && z <= y) min = z;
}
void ShowMaxMin(int& max, int& min)
{
    cout << "Max = " << max << endl;
    cout << "Min = " << min << endl;
}
void DisplayMenu()
{
    cout << "-----Practice Arithmetic-----" << endl;
    cout << "1.Addition" << endl;
}

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        cout << "2.Subtraction" << endl;
    }
    void Select(int &choice)
    {
        cout << "Enter your choice?(1/2)";
        cin >> choice;
    }
    void PracticeAdd()
    {
        int x, y;
        char answer;
        x = rand()%100 + 1;
        y = rand()%100 + 1;
        int PracticeAdd = (x + y);
        cout << x << " + " << y << " = " << PracticeAdd << endl;
        cout << "CORRECT" << endl;
        cout << "Continue(y/n)?" << endl;
        cin >> answer;
        if (answer == 'y')
        {
            cout << "No. of Correct Answers = 1" << endl;
        }
        else
        {
            cout << "No. of Wrong Answers = 1" << endl;
        }
    }
}
    void PracticeSub()
    {
        int x, y;
        char answer;
        x = rand()%100 + 1;
        y = rand()%100 + 1;
        int PracticeSub = (x - y);
        cout << x << " - " << y << " = " << PracticeSub << endl;
        cout << "CORRECT" << endl;
        cout << "Continue(y/n)?" << endl;
        cin >> answer;
        if (answer == 'y')
        {
            cout << "No. of Correct Answers = 1" << endl;
        }
        else
        {
            cout << "No. of Wrong Answers = 1" << endl;
        }
    }
}

int main()
{
    //declare identifiers
    int x=1, y=1, z=1, Sum;
    float Average;
    //read three integer numbers into x , y, and z
    Read(x, y, z);
}

```

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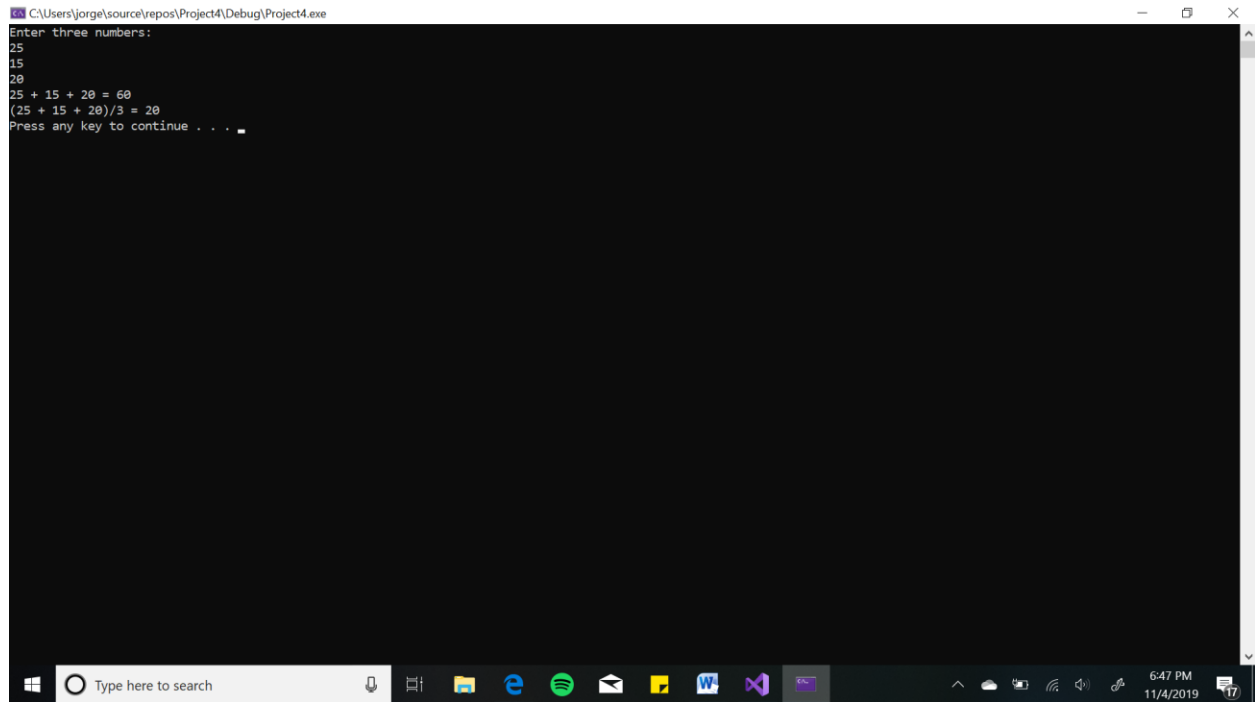
        //compute x+y
        Sum = CompSum(x, y, z);
        //compute the average of x, y, and z
        CompAve(x, y, z, Average);
        //display Sum and Average
        Display(x, y, z, Sum, Average);
        //terminate program
        system("pause" );
        return 0;
    }

int main()
{
    //declare identifiers
    int x, y, z, max, min;
    //read three integer numbers into x,y,z
    ReadData(x, y, z);
    //find and display the sum and average of x,y,z
    int Sum; float Average;
    FindSumAve(x, y, z, Sum, Average);
    ShowSumAve(Sum, Average);
    //find and display the max. and min. of x,y,z
    FindMaxMin(max, min, x, y, z);
    ShowMaxMin(max, min);
    //terminate program
    system("pause");
    return 0;
}

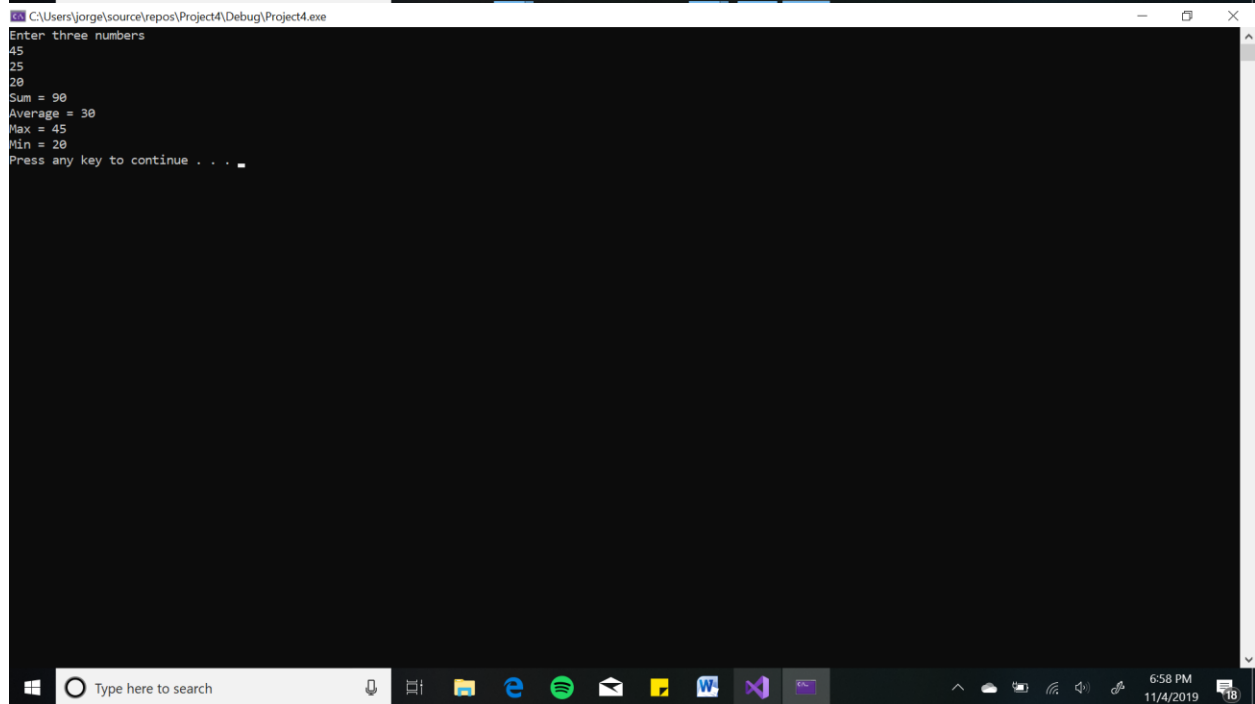
int main()
{
    // display menu
    DisplayMenu();
    //select your choice
    int choice;
    Select(choice);
    // test your choice
    switch (choice)
    {
        case 1: PracticeAdd();
                break;
        case 2: PracticeSub();
                break;
    }
    //terminate program
    system("pause");
    return 0;
}

```

```
C:\Users\jorge\source\repos\Project4\Debug\Project4.exe
Enter three numbers:
25
15
20
25 + 15 + 20 = 60
(25 + 15 + 20)/3 = 20
Press any key to continue . . .
```



```
C:\Users\jorge\source\repos\Project4\Debug\Project4.exe
Enter three numbers
45
25
20
Sum = 90
Average = 30
Max = 45
Min = 20
Press any key to continue . . .
```



```
C:\Users\jorge\source\repos\Project4\Debug\Project4.exe
-----Practice Arithmetic-----
1.Addition
2.Subtraction
Enter your choice?(1/2)1
42 + 68 = 110
CORRECT
Continue(y/n)?
y
No. of Correct Answers = 1
Press any key to continue . . .
```

```
C:\Users\jorge\source\repos\Project4\Debug\Project4.exe
-----Practice Arithmetic-----
1.Addition
2.Subtraction
Enter your choice?(1/2)2
42 - 68 = -26
CORRECT
Continue(y/n)?
n
No. of Wrong Answers = 1
Press any key to continue . . .
```

```
C:\Users\jorge\source\repos\Project4\Debug\Project4.exe
-----Practice Arithmetic-----
1.Addition
2.Subtraction
Enter your choice?(1/2)2
42 - 68 = -26
CORRECT
Continue(y/n)?
y
No. of Correct Answers = 1
Press any key to continue . . .
```

```
C:\Users\jorge\source\repos\Project4\Debug\Project4.exe
-----Practice Arithmetic-----
1.Addition
2.Subtraction
Enter your choice?(1/2)1
42 + 68 = 110
CORRECT
Continue(y/n)?
n
No. of Wrong Answers = 1
Press any key to continue . . .
```