


TASK NO. 01

Data Types, Conditional Operators, Arithmetic Operators

```
#include <iostream>
#include <stdio.h>
#include <stdlib.h>
using namespace std;

int addition()
{
    int x = rand();
    int y = rand();
    int z;
    cout << x << " + " << y << " = ";
    cin >> z;
    if (x + y == z)
        cout << "Your answer is correct" << endl;
    else
        cout << "Your answer is wrong" << endl;
        cout << "Correct answer is " << x + y << endl;
    return 0;
}

int subtraction()
{
    int x = rand();
    int y = rand();
    int z;
    cout << x << " - " << y << " = ";
    cin >> z;
    if (x - y == z)
        cout << "Your answer is correct" << endl;
    else
        cout << "Your answer is wrong" << endl;
        cout << "Correct answer is " << x - y << endl;
    return 0;
}
```



```
int multiplication()
{
    int x = rand();
    int y = rand();
    int z;
    cout << x << " x " << y << " = ";
    cin >> z;
    if (x * y == z)
        cout << "Your answer is correct" << endl;
    else
        cout << "Your answer is wrong" << endl;
        cout << "Correct answer is " << x * y << endl;
    return 0;
}

int division()
{
    float x = rand();
    float y = rand();
    float z;
    cout << x << " / " << y << " = ";
    cin >> z;
    if (x / y == z)
        cout << "Your answer is correct" << endl;
    else
        cout << "Your answer is wrong" << endl;
        cout << "Correct answer is " << x / y << endl;
    return 0;
}
```

```
int main()
{
    string name;
    int choice;
    char ch;
    cout << "Enter your name:" << endl;
    cin >> name;
    cout << "Welcome " << name << endl;
start:
    cout << "---Choose domain of quiz---\n(Choose a number)" << endl;
    cout << "1.Additon\n2.Subtraction\n3.Multiplication\n4.Division" << endl;
    cout << "Choice: ";
    cin >> choice;

    switch (choice)
    {
    case 1:
    {
        cout << "---ADDITON---" << endl;
        addition();
        cout << "Do you want to go to menu?" << endl;
        cin >> ch;
        if (ch == 'Y' || 'y')
            goto start;
        else
            goto end;
        break;
    }
    case 2:
    {
        cout << "---SUBTRACTION---" << endl;
        subtraction();
        cout << "Do you want to go to menu?" << endl;
        cin >> ch;
        if (ch == 'Y' || 'y')
        {
            goto start;
        }
        else
            goto end;
        break;
    }
    }
```

```
case 3:
{
    cout << "---MULTIPLICATION---" << endl;
    multiplication();
    cout << "Do you want to go to menu?" << endl;
    cin >> ch;
    if (ch == 'Y' || 'y')
    {
        goto start;
    }
    else
        goto end;
    break;
}
case 4:
{
    cout << "---DIVISION---" << endl;
    division();
    cout << "Do you want to go to menu?" << endl;
    cin >> ch;
    if (ch == 'Y' || 'y')
    {
        goto start;
    }
    else
        goto end;
    break;
}

default:
{
    char a;
    cout << "Wrong input\nDo you want to go back to menu?" << endl;
    cin >> a;
    if (a == 'Y' || 'y')
    {
        goto start;
    }
    else
    {
        goto end;
    }
    break;
}
}

end:
cout << "You are exiting the program..." << endl;
system("pause");
return 0;
}
```

RESULTS

C:\Users\Tooba Khalique\source\repos\DevTask01\x64\Debug\DevTask01.exe

```
Enter your name:
Tooba
Welcome Tooba
---Choose domain of quiz---
(Choose a number)
1.Additon
2.Subtraction
3.Multiplication
4.Division
Choice: 1
---ADDITON---
41 + 18467 = 23
Your answer is wrong
Correct answer is 18508
Do you want to go to menu?
y
---Choose domain of quiz---
(Choose a number)
1.Additon
2.Subtraction
3.Multiplication
4.Division
Choice: 2
---SUBTRACTION---
6334 - 26500 = 345
Your answer is wrong
Correct answer is -20166
Do you want to go to menu?
y
---Choose domain of quiz---
(Choose a number)
1.Additon
2.Subtraction
3.Multiplication
4.Division
Choice: 3
---MULTIPLICATION---
19169 x 15724 = 301413356
Your answer is correct
Correct answer is 301413356
Do you want to go to menu?
y
---Choose domain of quiz---
(Choose a number)
1.Additon
2.Subtraction
3.Multiplication
4.Division
Choice: 4
---DIVISION---
11478 / 29358 = 34
Your answer is wrong
Correct answer is 0.390967
```