



ALZEEKA Tutorial

## Computer programming 1



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<https://alzeeka.github.io/alzeeka/>

## حل الاختبار ميد

### Q1 : Select the correct answer

1- If (60 < 12 \* 5)  
cout << "Hello";  
cout << "There";

Outputs the following:

(a) Hello There

(b) Hello

(c) There

2- Int x = 10;  
Int y;  
y = ++x;  
cout << "x = " << x << " , y = " << y;

Outputs the following:

(a) x = 11 , y = 11

(b) x = 10 , y = 11

(c) x = 11 , y = 10

3-     Int x = 13;  
       Int y;  
       y = x--;  
       cout << "x = " << x << " ,y = " << y;

Outputs the following:

(a) x = 12 , y = 12

(b) x = 13 , y = 12

(c) x = 12 , y = 13



4-     int z = 50;  
       If (z <= 60)  
       cout << "Hello" << endl;  
       else  
       cout << "There" << endl;

Outputs the following:

(a) Hello There

(b) Hello

(c) There



5-     cout << "4 + 7 " << endl;

Outputs the following:

(a) 11

(b) 4 + 7

(c) 4 + 7 = 11

## Q2

a) Write a complete C++ program that prompts the user to choose the operation choice (from 1 to 4). Then it asks the user to input two integer values for the calculation.

The program will perform the appropriate operation based on the user's choice:

1: the summation:

2: the subtraction:

3: the multiplication:

4: the division.

### Sample Run:

```
MENU
    1. Add.
    2. Subtract.
    3. Multiply.
    4. Divide.
Enter your choice: 1
Enter your two numbers: 3 4
Result: 7
```

```
#include <iostream>
using namespace std;
int main(){

    int x,y,choice;
    cout<<"MENU"<<endl;
    cout<<"    1- Add."<<endl;
    cout<<"    2- Subtract."<<endl;
    cout<<"    3- multiplay."<<endl;
    cout<<"    4- divide."<<endl;

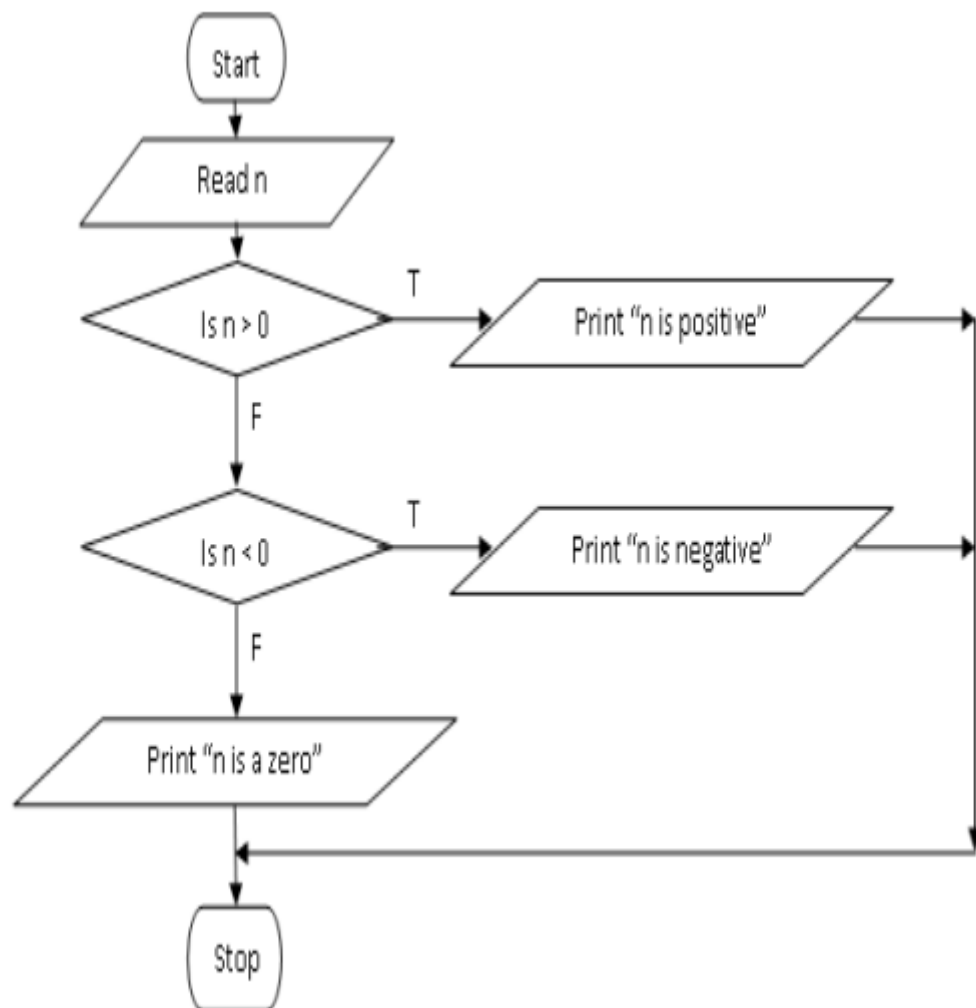
    cout<<"Enter your choice:";
    cin>>choice;

    cout<<"Enter your tow numbers :";
    cin>>x>>y;

    switch(choice){
        case 1:cout<<"Result : "<<x+y;break;
        case 2:cout<<"Result : "<<x-y;break;
        case 3:cout<<"Result : "<<x*y;break;
        case 4:cout<<"Result : "<<x/y;break;
        default:cout<<"error";break;
    }

    return 0;}
```

**b) Draw the flowchart to find if a given number is Negative, Positive, or Zero**



c) Suppose the input is 6 what is value of a after the following c++ code execution

```
cin>>a;
```

```
    if(a > 0)
    switch (a){
        case 1:
            a = a + 3;
        case 3:
            a++;
            break;
        case 6:
            a = a + 6;
        case 8:
            a = a * 8;
            break;
        default:a--;
    }

    else
        a = a + 2;
```

**a = 12 \* 8 = 96**

**d) What is the output:**

```
int main(){  
  
    cout<<"2 + 5 = "<<2 + 5<<endl;  
    cout<<"34 - 20 = "<<34 - 20<<endl;  
    cout<<"45 - 90 = "<<45 - 90<<endl;  
  
    return 0;  
}
```

● **Output:**

2 + 5 = 7  
34 - 20 = 14  
45 - 90 = -45

```
Int main(){  
int x , y;  
    x = 0;  
    y = 0;  
    count = 0;  
  
    if(x == 0)  
        count +=1;  
    if(y == 0)  
        count +=1;  
  
    cout<<"count = "<<count;  
  
    return 0;  
}
```

● **Output:**

Count = 2;

# ALZEEKA Tutorial

شروحات - خدمات - تصاميم

إنضم الآن

