

IAP LAB 7

BY

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CONDITION STATEMENT

3 EXAMPLE I

- Question:
 - Write program that reads integer number from the user, the program should determine if the number is positive or negative or equal to zero.

4 EXAMPLE I SOLUTION I

```
int number;
cout << "Enter A Number:";
cin >> number;
if (number > 0)
{
    cout << "Positive Number" << endl;
}
else
{
    if (number < 0)
    {
        cout << "Negative Number" << endl;
    }
    else
    {
        cout << "Zero Number" << endl;
    }
}
```

5 EXAMPLE I SOLUTION 2

```
int number;  
cout << "Enter A Number:";  
cin >> number;  
if (number > 0)  
{  
    cout << "Positive Number" << endl;  
}  
else if (number < 0)  
{  
    cout << "Negative Number" << endl;  
}  
else if (number == 0)  
{  
    cout << "Zero Number" << endl;  
}
```

6 EXAMPLE I SOLUTION 3

```
int number;
cout << "Enter A Number:";
cin >> number;
if (number > 0)
{
    cout << "Positive Number" << endl;
}
else if (number < 0)
{
    cout << "Negative Number" << endl;
}
else
{
    cout << "Zero Number" << endl;
}
```

7 EXAMPLE I SOLUTION 4

```
int number;
cout << "Enter A Number:";
cin >> number;
if (number > 0)
{
    cout << "Positive Number" << endl;
}
if (number < 0)
{
    cout << "Negative Number" << endl;
}
if (number == 0)
{
    cout << "Zero Number" << endl;
}
```

IMPORTANT NOTE

if there is only **one statement** will be executed inside a condition, you don't need to write it between **{ }**

9 EXAMPLE 2

- Question:
 - Write program that reads the salary of a user and calculates the bonus of the user's salary.
 - The bonus is calculated as following:
 - The salary is greater or equal to 2000 → the bonus is 5%
 - The salary is less than 20000 → the bonus is 10%
 - The program should prints the value of salary after adding the bonus.

10 EXAMPLE 2

SOLUTION I

```
float salary;
cin >> salary;
if (salary >= 20000)
{
    float bonus = salary * 0.05;
    salary = salary + bonus;
    cout << "The New Salary is: " << salary << endl;
}
else
{
    float bonus = salary * 0.1;
    salary = salary + bonus;
    cout << "The New Salary is: " << salary << endl;
}
```

II EXAMPLE 2

SOLUTION 2

```
float salary,bonus;
cin >> salary;
if (salary >= 20000)
{
    bonus = salary * 0.05;
}
else
{
    bonus = salary * 0.1;
}
salary = salary + bonus;
cout << "The New Salary is: " << salary << endl;
```

I2 EXAMPLE 2

SOLUTION 3

```
float salary,bonus;  
cin >> salary;  
if (salary >= 20000)  
    bonus = salary * 0.05;  
else  
    bonus = salary * 0.1;  
salary = salary + bonus;  
cout << "The New Salary is: " << salary << endl;
```