

Recognize and observe Conditional statement

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if else Statement

```
#include <iostream>
using namespace std;
int main() {
    int number;
    cout << "Enter an integer: ";
    cin >> number;

    if (number % 2 == 0) {
        cout << "The number is even." << endl;
    } else {
        cout << "The number is odd." << endl;
    }

    return 0;
}
```

Nested if else Statement

```
#include <iostream>
using namespace std;
int main() {
    int number;
    cout << "Enter an integer: ";
    cin >> number;
    if (number >= 0) {
        if (number == 0) {
            cout << "The number is zero." << endl;
        } else {
            cout << "The number is positive." << endl;
        }
    } else {
        cout << "The number is negative." << endl;
    }
    return 0;
}
```

Else-if

```
#include <iostream>
using namespace std;
int main() {
    int number;
    cout << "Enter an integer: ";
    cin >> number;
    if (number > 0) {
        cout << "The number is positive." << endl;
    }
    else if (number < 0) {
        cout << "The number is negative." << endl;
    }
    else {
        cout << "The number is zero." << endl;
    }
    return 0;
}
```

Task-1

□ Write a program that asks the user password to open the lock, if the password is correct:

- Let the user know that the entered password is correct.
- Else inform him that the password is incorrect.

Task-2

- Write C++ Program which takes a number as an input from the user and checks whether it is a positive or negative number, and accordingly the message is displayed on console screen.

Task-3

- Write C++ Code which takes marks of student and attendance percentage as input from the user, and display's whether student is pass or fail in exam, remember a student must obtain at least 60 marks and 75% attendance to pass the subject, after checking the program should display appropriate message.

Task-4

- Write C++ Program that asks the user for their age and citizenship status and determine that they are eligible for voting or not, for voting a person must be older than 18 years and must be a Pakistani Citizen

Task-5

- Write a C++ Program which prompts user to input two strings, concatenate them and store the result in a third variable.

Task-6

Write a C++ Program which checks if the user is eligible for entering army or not, the program takes following inputs:

1. Intermediate Percentage
2. Age
3. Height
4. Chest measurement

Entry is only allowed when intermediate percentage is at least 55%, age is between 17-22 years, height must be minimum 5.4 and chest measurement is between 77-82cm, If all the conditions are satisfied “You are eligible for PakArmy” is Displayed, otherwise “Sorry, Try Again” is displayed.