



JECRC Foundation



**JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE**

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Year & Semester - B.Tech I year (I Semester)

Subject - Computer Programming Lab ,Code – 1FY3-24

Presented by - Ms. Abhilasha

Department - Computer Science (First Year)

Index

- **Vision & Mission of the Institute**
- **Course Outcomes of Computer Programming Lab**
- **Lab 2(b) Programs to learn If-else statement**

- **Introduction of if Statement**
- **Example 1: if statement(Program to display a number if it is negative)**

- **Introduction if...else Statement**
- **Example 2: if –else statement (Program to find eligible for vote or note)**
- **Example 3: if –else statement(Program to check divisibility of a number)**

- **Assignment**

VISION OF INSTITUTE

To become a renowned centre of outcome based learning, and work towards academic, professional, cultural and social enrichment of the lives of individuals and communities.

MISSION OF INSTITUTE

- ❖ **Focus on evaluation of learning outcomes and motivate students to inculcate research aptitude by project based learning.**
- ❖ **Identify, based on informed perception of Indian, regional and global needs, the areas of focus and provide platform to gain knowledge and solutions.**
- ❖ **Offer opportunities for interaction between academia and industry.**
- ❖ **Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions .**

Computer Programming Lab :Course Outcomes

Upon successful completion of this course students will be able to:

CO1: Identify and analyze the input /output operation, decision making statements and looping.

CO2: Analyze and implement arrays, functions, pointers and dynamic memory allocation.

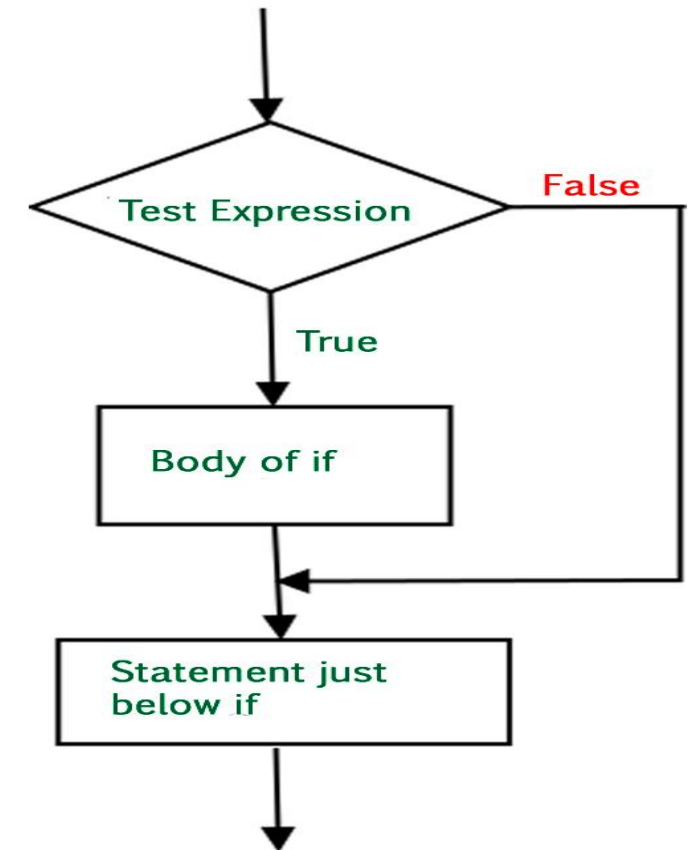
CO3: Apply structure, union and data handling through files in 'C' Programming Language.

C if Statement

Introduction:

The syntax of the if statement in C programming is:

```
if (test expression)
{
// statements to be executed if the test expression is true
}
```



Flow chart of if Statement

Cont...

How if statement works?

The if statement evaluates the test expression inside the parenthesis ().

If the test expression is evaluated to true, statements inside the body of if are executed.

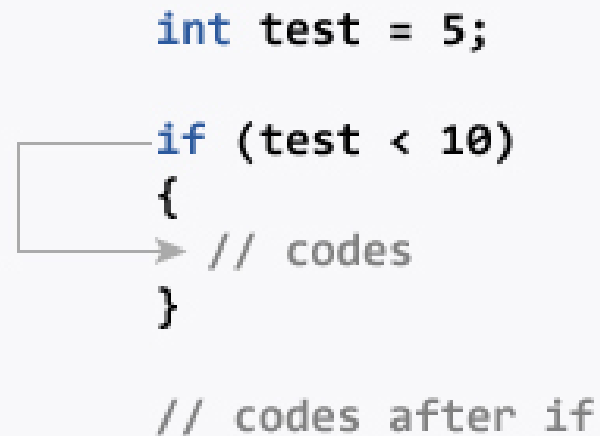
If the test expression is evaluated to false, statements inside the body of if are not executed.

Expression is true.

```
int test = 5;

if (test < 10)
{
  // codes
}

// codes after if
```

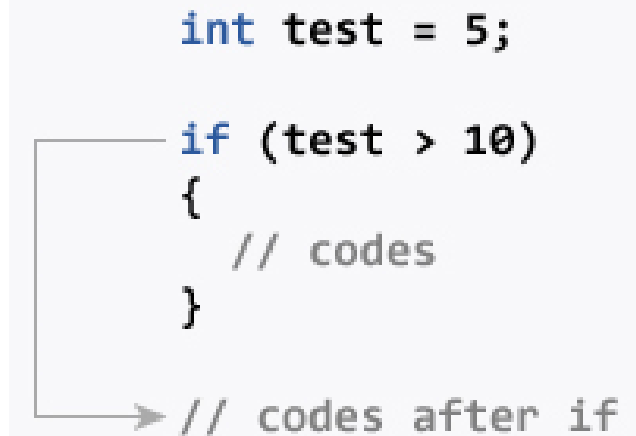


Expression is false.

```
int test = 5;

if (test > 10)
{
  // codes
}

// codes after if
```



Example 1: if statement

// Write a program to display a number if it is negative

```
#include <stdio.h>
#include <conio.h>
void main()
{
int number; clrscr();
printf("Enter an integer: ");
scanf("%d", &number);
if (number < 0)
{
printf("You entered %d.\n", number);
printf("The if statement is negative .");
}
getch();
}
```

Output 1

Enter an integer: -2 You entered -2.
The if statement is negative .

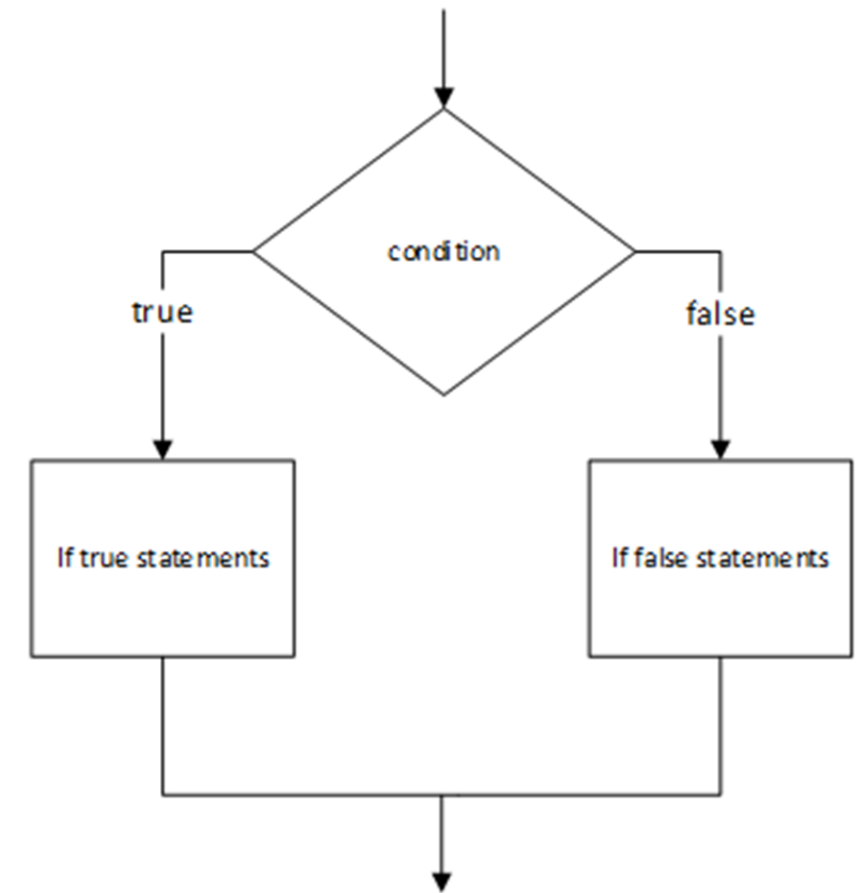
C if...else Statement

Introduction:

The if statement may have an optional else block.

The syntax of the if..else statement is:

```
if (condition)
{
// statements to be executed if the test expression is true
}
else
{
// statements to be executed if the test expression is false
}
```



Flow chart of if else Statement

Example 2: if –else statement

\\Write a program to find eligible for vote or not.

```
#include <stdio.h>
#include<conio.h>
void main()
{
int age; clrscr();
printf("Enter your age:");
scanf("%d",&age);
if(age >=18)
    printf("You are eligible for voting");
else
printf("You are not eligible for voting");
getch();
}
```

OUTPUT:

First run:

Enter the age of the person: 21
Eligible for voting

Second run:

Enter the age of the person: 15
Not eligible for voting

Example 3: if –else statement

// Write a program to find number is Even or Odd.

```
#include <stdio.h>
#include<conio.h>
void main()
{
int num; clrscr();
printf("Enter an integer: ");
scanf("%d", &num); // True if num is perfectly divisible by 2
if(num % 2 == 0)
printf("%d is even.", num);
else
printf("%d is odd.", num);
getch();
}
```

Output:

```
Enter a number:4
4 is even number
enter a number:5
5 is odd number
```

Assignment

1. Write a C program to check whether a character is alphabet or not.
2. Write a C program to input a year and find year is leap year or not.
3. Write a C program to input two integer numbers and find the greatest of two



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*Thank
you!*