



# **C Language Tutorial**

(Basic to Advanced)

#### **Topics** to be covered:

Installation + Setup

Chapter 1 - Variables, Data types + Input/Output

Chapter 2 - Instructions & Operators

Chapter 3 - Conditional Statements

Chapter 4 - Loop Control Statements

Chapter 5 - Functions & Recursion

Chapter 6 - Pointers

Chapter 7 - Arrays

Chapter 8 - Strings

Chapter 9 - Structures

Chapter 10 - File I/O

Chapter 11 - Dynamic Memory Allocation

# Conditional Statements (Chapter 3)

#### 1. If-else

```
#include<stdio.h>

int main() {
    int age = 19;
    if(age >= 18) {
        printf("you are an adult");
    }
    else {
        printf("you are not an adult");
    }
    return 0;
}
```

#### > check if a number is odd or even

```
#include<stdio.h>
int main() {
  int number;
```





```
scanf("%d", &number);

if(number % 2 == 0) {
    printf("even");
}

else {
    printf("odd");
}

return 0;
}
```

#### > Use of else if

```
#include<stdio.h>

int main() {
    int age;
    printf("Enter age : ");
    scanf("%d", &age);

    if(age < 12) {
        printf("child");
    }
    else if(age < 18) {
        printf("teenager");
    }
    else {
        printf("adult");
    }
    return 0;
}</pre>
```

# 2. Ternary Operator

```
#include<stdio.h>
int main() {
  int age;
  printf("Enter age : ");
  scanf("%d", &age);

age > 18 ? printf("adult \n") : printf("not adult \n");

int number = 7;
```





```
int luckyNumber = 7;

number == luckyNumber ? printf("you are lucky \n") : printf("you are not
lucky \n");

return 0;
}
```

## 3. Switch (integer)

### 4. Switch (character)



