

C Decision Making



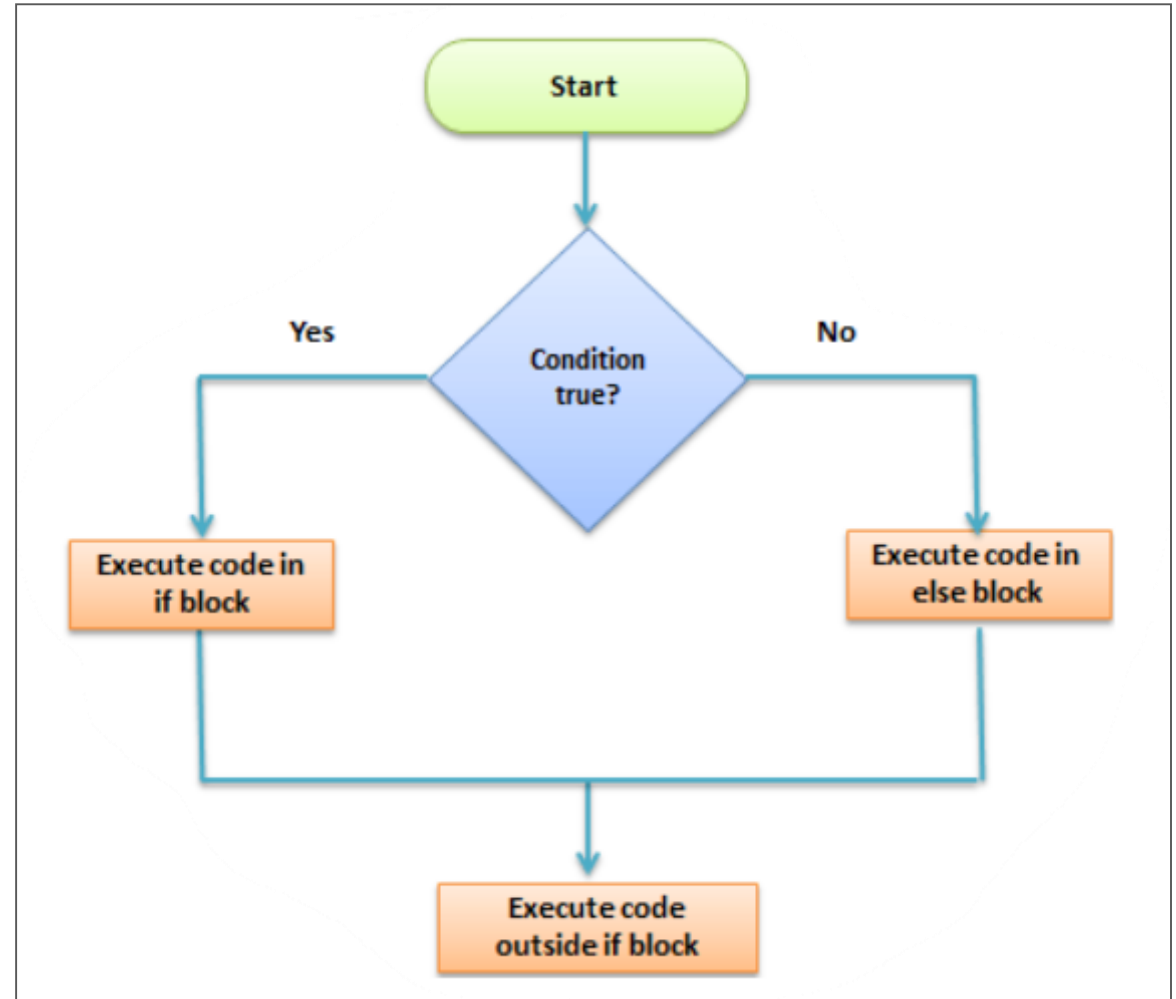
- Conditional/Decision making statements in C programming are used to make decisions based on the conditions.
- There are the following variants of if statement in C language.
 - If statement
 - If-else statement
 - If else-if ladder
 - Nested if

C Decision Making



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

```
if(condition1){  
    //code to be executed if condition1 is true  
}else if(condition2){  
    //code to be executed if condition2 is true  
}  
else if(condition3){  
    //code to be executed if condition3 is true  
}  
...  
else{  
    //code to be executed if all the conditions are false  
}
```



C Switch Statement



- The switch statement in C is an alternate to if-else-if ladder statement which allows us to execute multiple operations for the different possible values of a single variable called switch variable.

```
switch(expression) {  
    case x:  
        // code block  
        break;  
    case y:  
        // code block  
        break;  
    default:  
        // code block  
}
```

C Switch Statement



- Rules for switch statement in C language:
 - The *switch expression* must be of an integer or character type.
 - The *case value* must be an integer or character constant.
 - The *case value* can be used only inside the switch statement.
 - The *break statement* in switch case is optional. If there is no break statement, then all the cases will be executed after the matched case.