



High School Programming

Lecture - 7

WELCOME TO



Programming

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Recap Previous Lecture

- Arithmetic Operator
- Assignment Operator
- Relational Operator

Agenda

- Logical Operator
- Flow Control / Conditional Statements
- IF Condition
- IF - Else Condition
- IF..Else If..Else Condition
- Switch Statement

Logical Operator

-- As with comparison operators, you can also test for **true** or **false** values with logical operators. Logical operators are used to determine the logic between variables or values:

Operator	Name	Description	Example
&&	Logical and	Returns True if both statements are true	<code>x < 5 && x < 10</code>
 	Logical or	Returns True if one of the statements is true	<code>x < 5 x < 4</code>
!	Logical not	Reverse the result, returns False if the result is true	<code>!(x < 5 && x < 10)</code>

Flow Control / Conditional Statement

--In computer programming, control flow or flow of control is the order function calls, instructions, and statements are executed or evaluated when a program is running. Many programming languages have what are called control flow statements, which determine what section of code is run in a program at any time.

How to control flow of program:

- ✓ if statement
- ✓ else-if statement
- ✓ else statement
- ✓ switch statement



If Statement

-- The if statement contains a boolean condition followed by a single or multi-line code block to be executed. At runtime, if a boolean condition evaluates to **true**, then the code block will be executed, otherwise not.

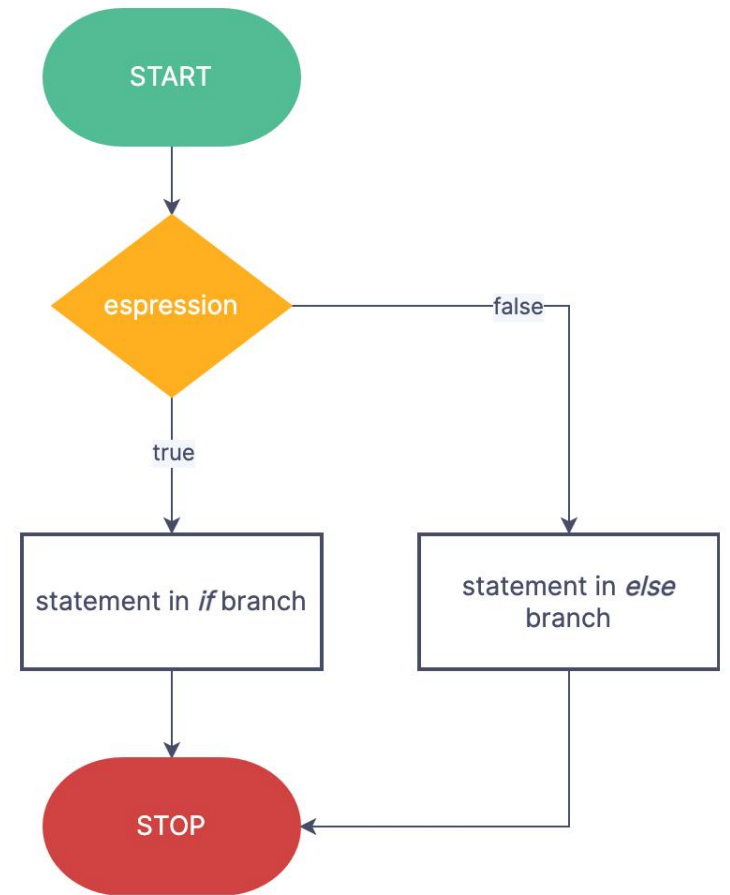
Syntax:

if(condition)

```
{  
    // code block to be executed when if condition evaluates to true  
}
```

Example:

```
if(balance > 500)  
{  
    //you are able to transaction on account  
}
```



If-Else Statement

-- Use the else statement to specify a block of code to be executed if the condition is **False**

Syntax:

if(condition)

{

// code block to be executed when if condition evaluates to true

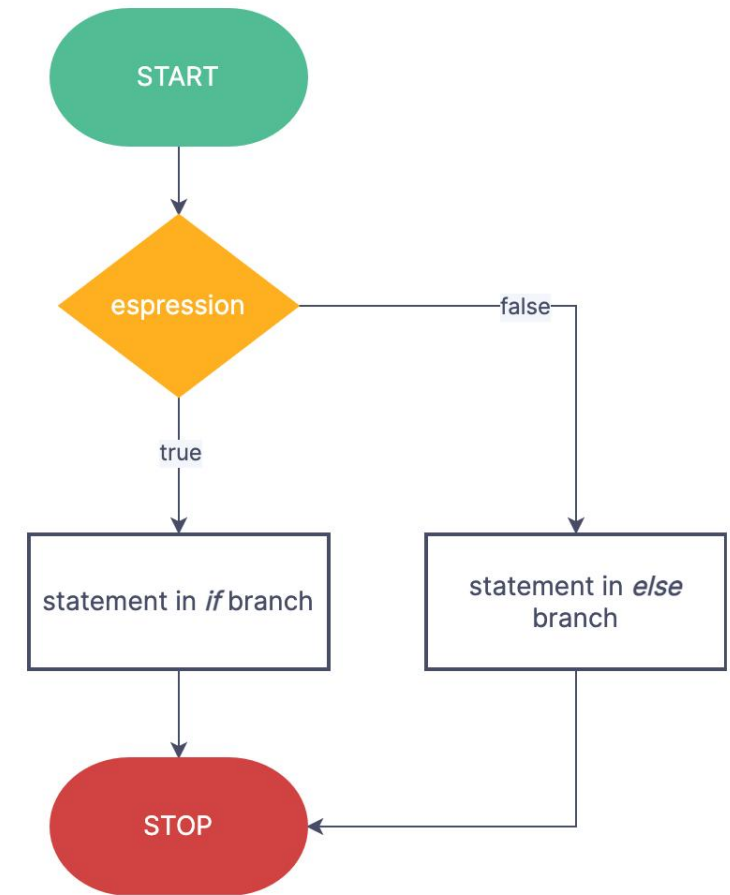
}

else

{

// code block to be executed when if condition evaluates to false

}



Else-If Statement

-- Use the else statement to specify a block of code to be executed if the condition is **False**

Syntax:

if(condition)

{

// code block to be executed when if condition evaluates to true

}

else if (condition)

{

// code block to be executed when else if condition evaluates to true

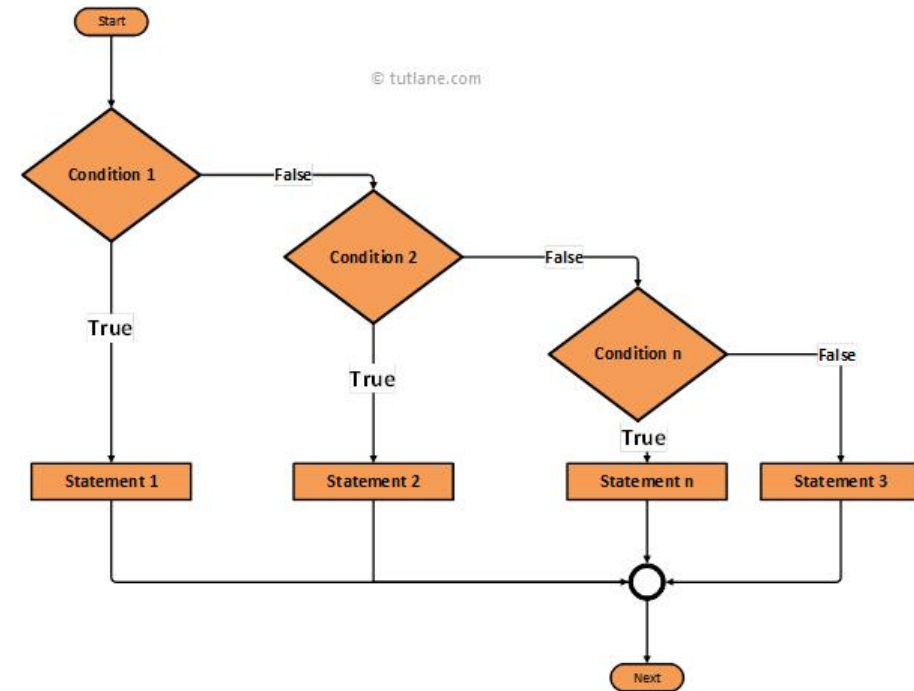
}

else

{

// code block to be executed when if condition evaluates to false

}



Switch Statement

-- Use the switch statement to select one of many code blocks to be executed.

Syntax:

```
switch(expression) {
```

```
  case x:
```

```
    // code block
```

```
    break;
```

```
  case y:
```

```
    // code block
```

```
    break;
```

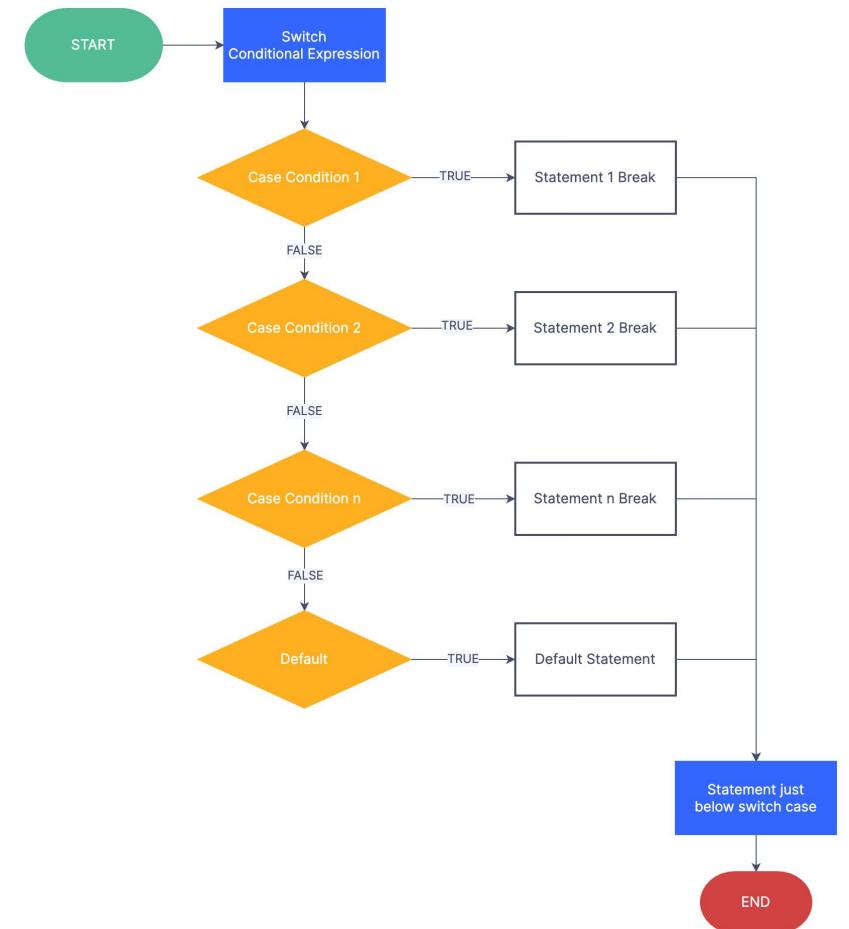
```
  default:
```

```
    // code block
```

```
    break;
```

```
}
```

Switch Case Flowchart



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Thank You