

Conditional Execution

Harish D. Gadade
www.harishgadade.com

Conditional Execution / Decision Making Statements

- ***if** statements*
- ***if - else** statements*
- ***if - elif - else** Statements*

If Statements

- *Syntax*

```
if condition:  
    statement_1  
    statement_2
```

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```

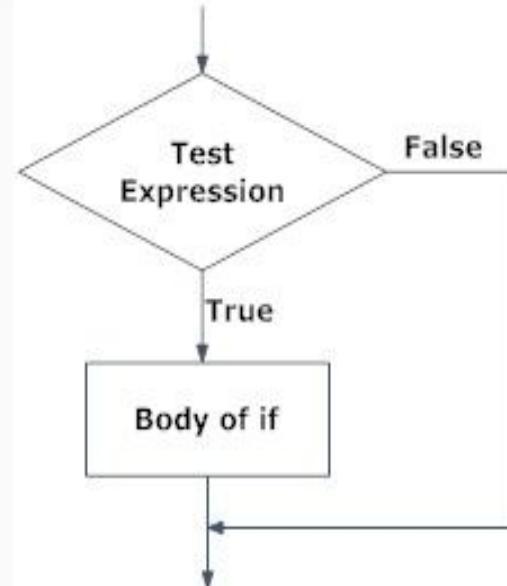


Fig: Operation of if statement

If Statements

- *Syntax*

```
if condition:  
    statement_1  
    statement_2
```

- *Example*

```
If m%n != 0:  
    (m, n) = (n, m%n)
```

- Statement (body of if) will be executed when if condition is true...
i.e. `m%n !=0` is True
- Indentation demarcates body of `if`
- Indentation must be uniform
- `:` represents end of `if` condition and start body of `if`

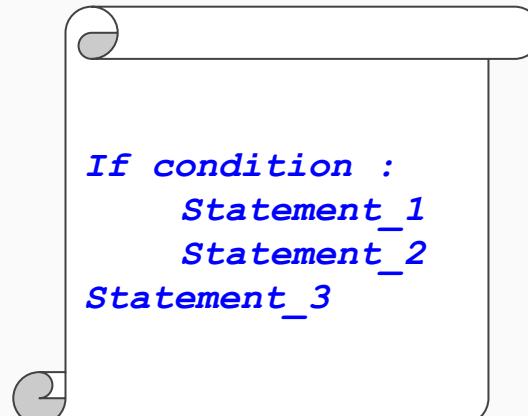
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    statement_1  
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- Example

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If m%n != 0:  
    (m, n) = (n, m%n)
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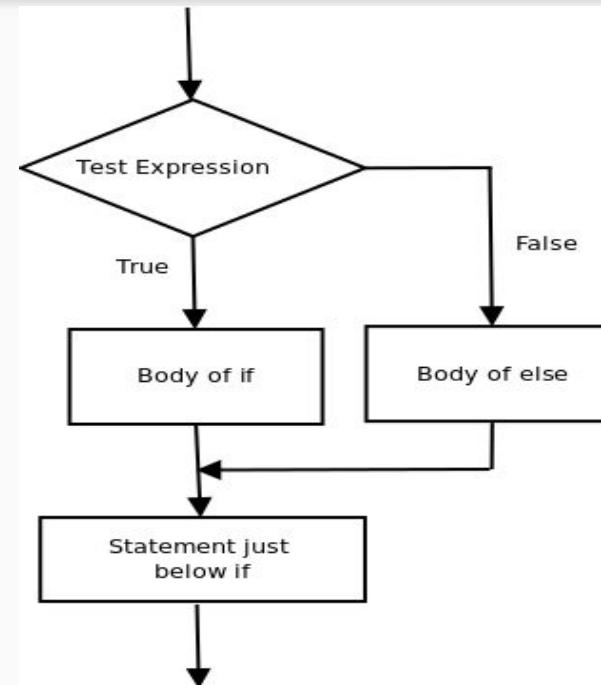


If - else Statements

- Syntax:

```
if condition :  
    statement_1  
    Statement_2  
  
else:  
    Statement_3  
    Statement_4
```

- Here **else** is Optional

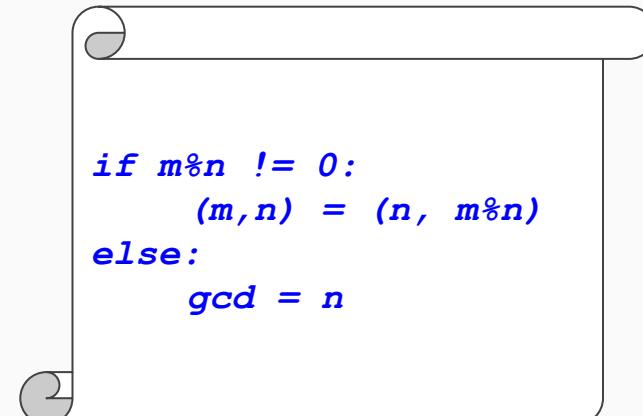


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- Syntax:

```
if condition :  
    statement_1  
    Statement_2  
else:  
    Statement_3  
    Statement_4
```

- Here **else** is Optional



If - elif - else Statements

- *Syntax:*

```
if condition1 :  
    statement_1  
    statement_2  
elif condition2 :  
    statement_3  
    statement_4  
....  
....  
else :  
    statement_5
```

Hands-on!!

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1. Write a program that accepts two integer numbers and prints message “ Equals” if both the entered numbers are equal.
2. Write a program that accepts a radius of a circle. If the radius of a circle is greater than zero then print the area and circumference of the circle.
3. Write a program that accepts two numbers and finds greater number.
4. Write a program to test whether a number is divisible by 5 and 10 OR 5 or 10.