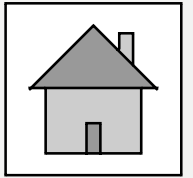




# DECISION MAKING STATEMENTS

# 1) *if* CONDITION

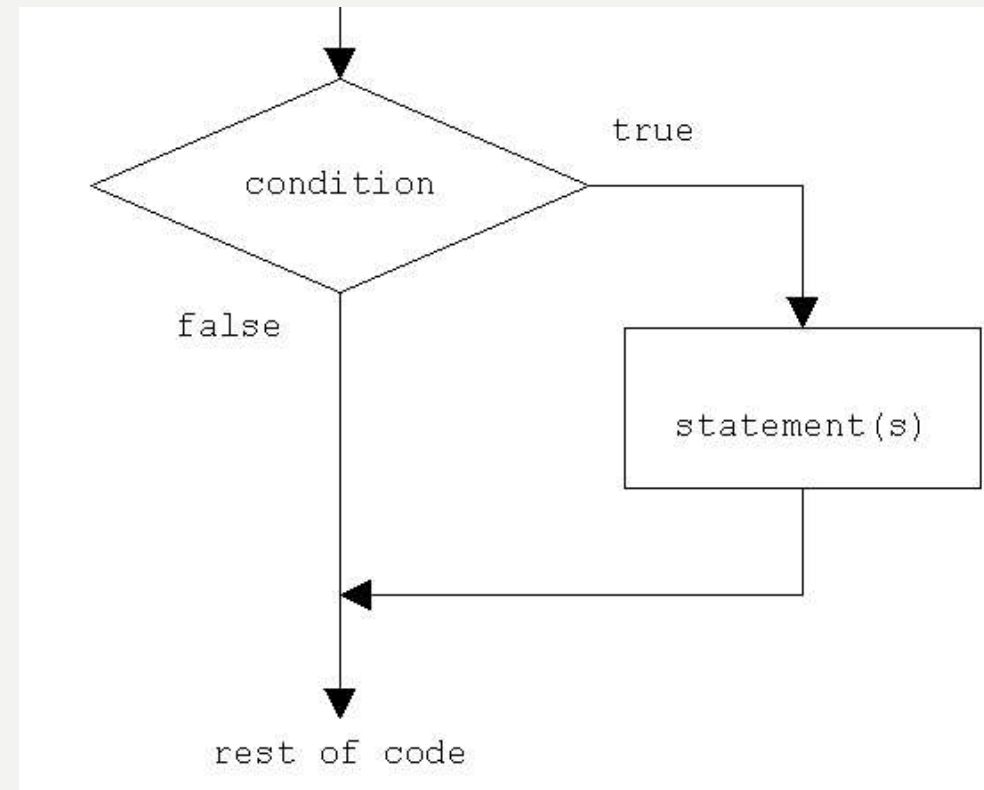


## SYNTAX

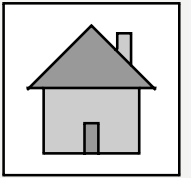
*if* expression:  
statement(s)  
or

*if* (expression):  
statement(s)

## FLOWCHART



# EXAMPLE of *if*



## OUTPUT

7% \*IF.PY - C:/Python27/IF.PY\*

File Edit Format Run Options Windows Help

**#EXAMPLE OF IF**

```
n=input("please enter a number=")
```

```
if (n>0):  
    print n, ": is POSITIVE number"
```

```
if (n<0):  
    print n, ": is NEGATIVE number"
```

7% Python Shell

File Edit Shell Debug Options Windows Help

Python 2.7.3 (default, Apr  
Type "copyright", "credits"

>>> =====

>>>

please enter a number=5

5 : is POSITIVE number

>>> =====

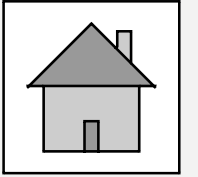
>>>

please enter a number=-2

-2 : is NEGATIVE number

>>> |

## 2) *if ... else* CONDITION

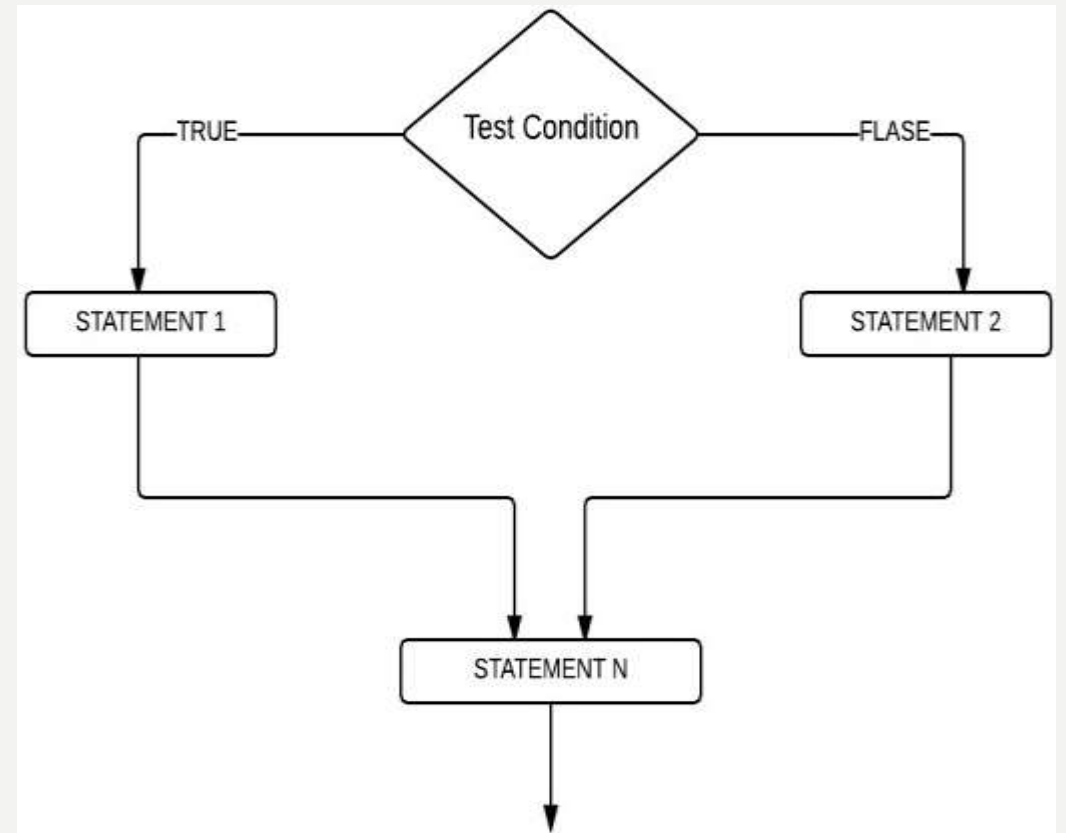


### SYNTAX

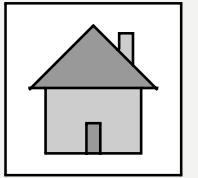
*if* expression:  
statement(s)

*else* :  
statement(s)

### FLOWCHART



# EXAMPLE of *if ... else*



## Odd\_Even Program

Python Shell odd\_even\_if\_else.py - C:/Python27/odd\_even\_if\_else.py

File Edit Format Run Options Windows Help

```
n=input("enter the no=")
r=n%2

if (r==0):
    print n, "is even number"
else:
    print n, "is odd number "
```

## OUTPUT

Python Shell

File Edit Shell Debug Options Windows Help

Python 2.7.3 (default, Apr 1  
Type "copyright", "credits"

>>> =====

>>>

enter the no=10  
10 is even number

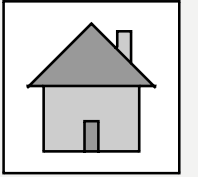
>>> =====

>>>

enter the no=11  
11 is odd number

>>>

### 3) *if ... elif ... else* CONDITION



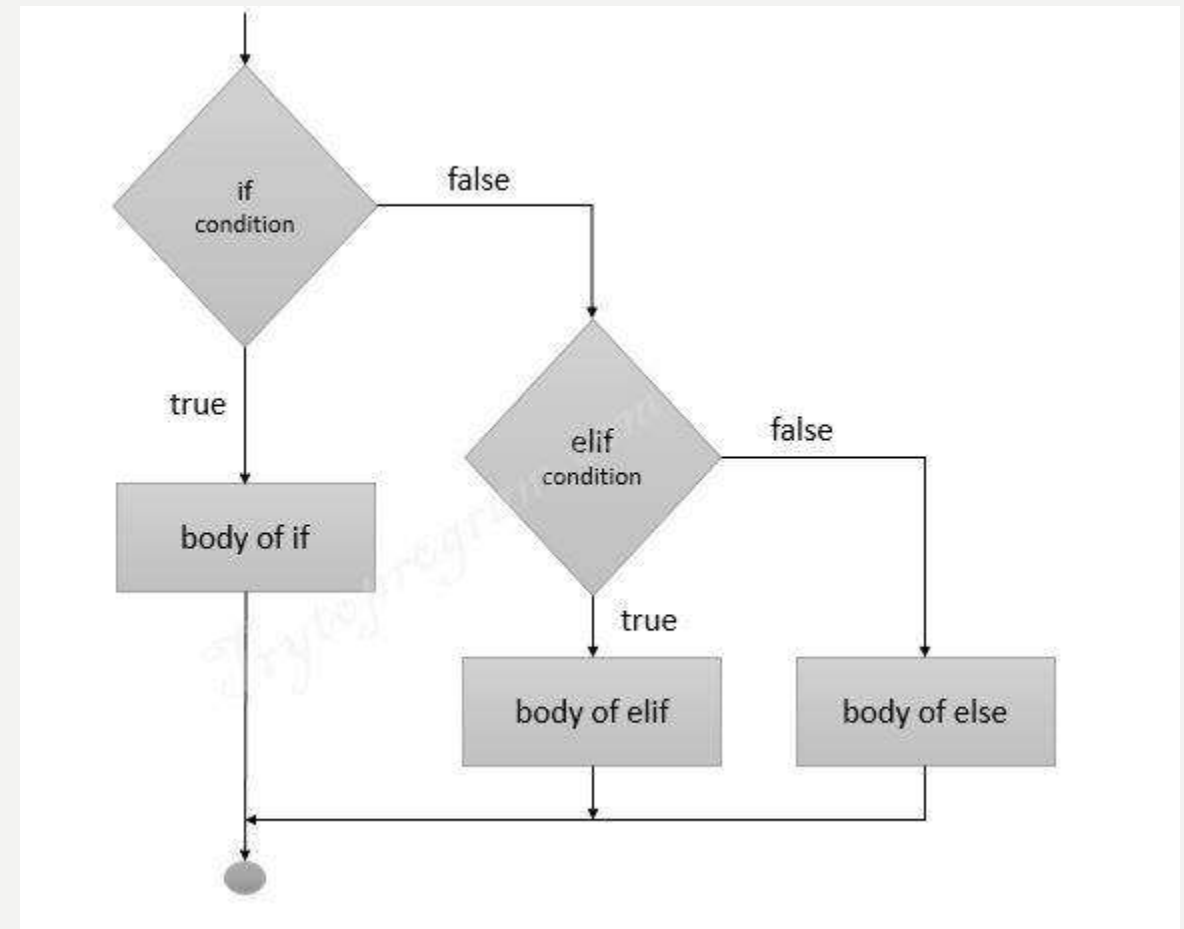
#### SYNTAX

*if* expression:  
statement(s)

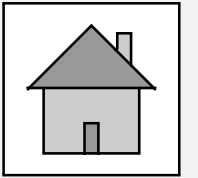
*elif* (expression):  
statement(s)

*else* :  
statement(s)

#### FLOWCHART



# EXAMPLE of *if ... elif ... else*



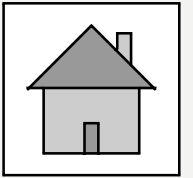
if\_elif\_else.py - C:/Python27/if\_elif\_else.py

File Edit Format Run Options Windows Help

```
n=input("please enter a number between 1 to 7 to display weekdays=")
if (n==1):
    print n, " :Monday"
elif (n==2):
    print n, " :Tuesday"
elif (n==3):
    print n, " :wednesday"
elif (n==4):
    print n, " :Thursday"
elif (n==5):
    print n, " :Friday"
elif (n==6):
    print n, " :Saturday"
elif (n==7):
    print n, " :Sunday"
else:
    print n, " you have entered wrong number enter number between 1-7"
```



# OUTPUT OF *if ... elif ... else*



Python Shell

File Edit Shell Debug Options Windows Help

```
Python 2.7.3 (default, Apr 10 2012, 23:31:26) [MSC v.1500 32  
Type "copyright", "credits" or "license()" for more informati
```

```
>>> ===== RESTART =====
```

```
>>>
```

```
please enter a number between 1 to 7 to display weekdays=6
```

```
6 :Saturday
```

```
>>> ===== RESTART =====
```

```
>>>
```

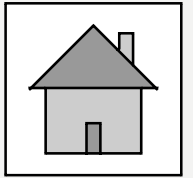
```
please enter a number between 1 to 7 to display weekdays=8
```

```
8 you have entered wrong number enter number between 1-7
```

```
>>> |
```



## 4) NESTED *if*



### SYNTAX

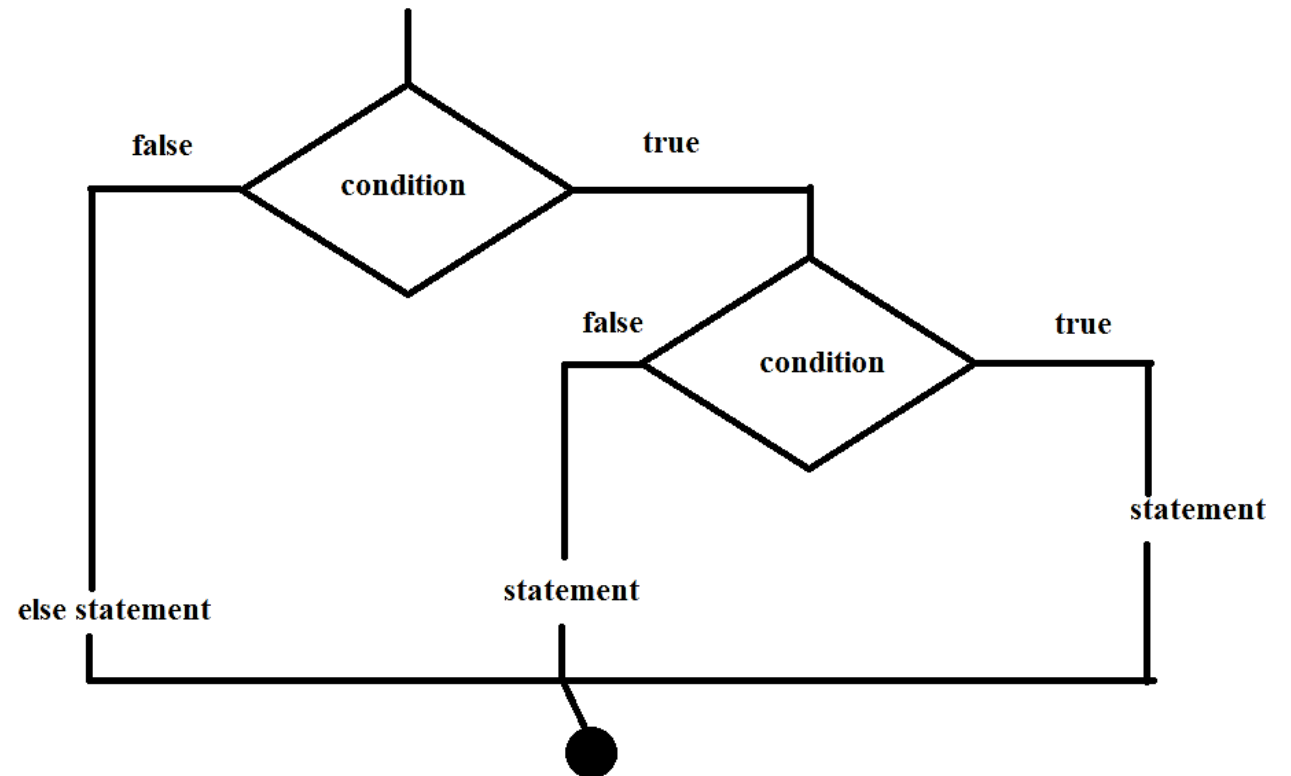
*if* expression:  
statement(s)

*if* (expression):  
statement(s)

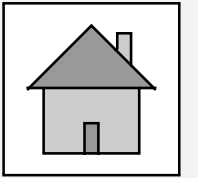
*else*:  
statement(s)

*else* :  
statement(s)

### FLOWCHART



# EXAMPLE of NESTED *if*



76 nested\_if.py - C:/Python27/nested\_if.py

File Edit Format Run Options Windows Help

**#NESTED IF**

**#PROGRAM TO FIND WHETHER A NUMBER IS POSITIVE, NEGATIVE OR ZERO**

```
n=input("enter the no=")
```

```
if (n>=0):
```

```
    if (n==0):
```

```
        print("Entered number is Zero")
```

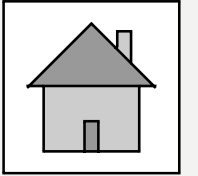
```
    else:
```

```
        print("Entered number is Positive")
```

```
else:
```

```
    print("Entered number is Negative")
```

# OUTPUT



```
76 Python Shell
File Edit Shell Debug Options Windows Help
Python 2.7.3 (default, Apr 10 2012
Type "copyright", "credits" or "li
>>> =====
>>>
enter the no=5
Entered number is Positive
>>> =====
>>>
enter the no=-2
Entered number is Negative
>>> =====
>>>
enter the no=0
Entered number is Zero
>>> |
```