

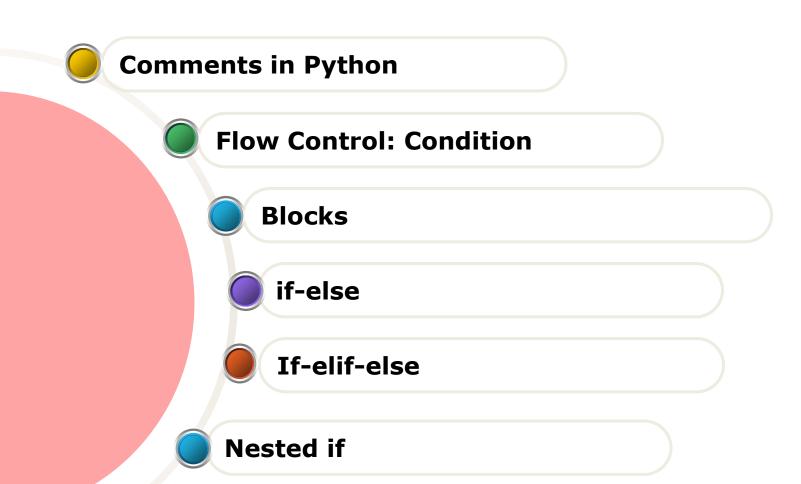
Python Programming

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Contents





Creating a Comment



• Comments starts with a #, and Python will ignore them:

#This is a comment
print("Hello, World!")

Multi Line Comments(triple quotes)

** ** **

This is a comment written in more than just one line

print("Hello, World!")

Assignment



Ask user for his name and say hello. Also tell him how long his name is.

- Few functions needed:
 - O print() prints on screen
 - O input() reads one line of input
 - O len(), str(), float(), int()

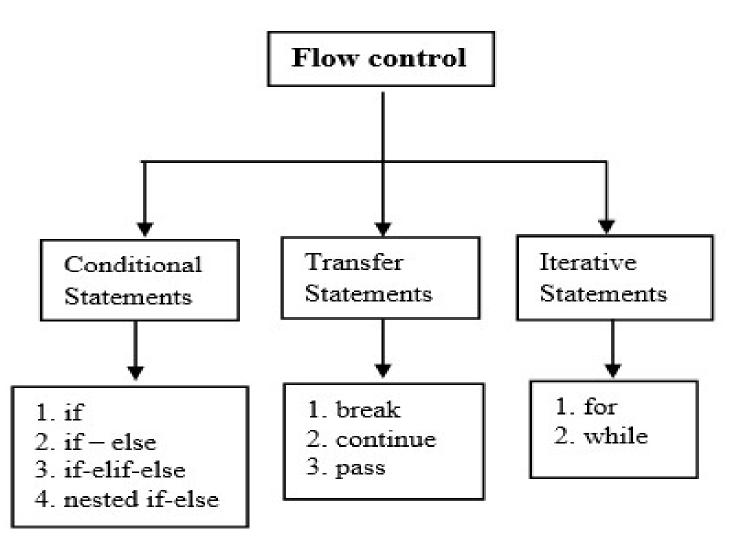
Flow control statements



- The flow control statements are divided into three categories
 - Conditional statements
 - Iterative statements.
 - Transfer statements

Flow control statements





Flow Control: Condition and Blocks



- Condition is a boolean expression
- Blocks
 - O indentation define start of blocks
 - O blocks can contain other blocks
 - O when indentation ends block ends

```
if x>0:
```

print("Number is positive")

$$y = 7$$

if $y\%5 == 0$:

print("Number is divisible by 5")

Conditional statements



• In Python, condition statements act depending on whether a given condition is true or false. You can execute different blocks of codes depending on the outcome of a condition. Condition statements always evaluate to either True or False.

Flow Control: if, else



- if, elif, else are keywords
- if statement structure
 - O if keyword followed by a boolean expression
 - O followed by a colon
 - O followed by an indented block of code on next line
- else clause is optional
 - O defined using keyword else followed by a colon
 - O followed by an indented block of code on next line

Syntax of the if statement



if condition:

statement 1

statement 2

statement n

Example

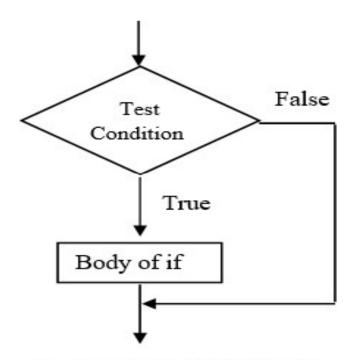


Fig. Flowchart of if statement

If – else statement



Syntax

if condition:

statement 1

else:

statement 2

Example

password = input('Enter password ')
if password == "chitkara123":
 print("Correct password")

else:

print("Incorrect Password")

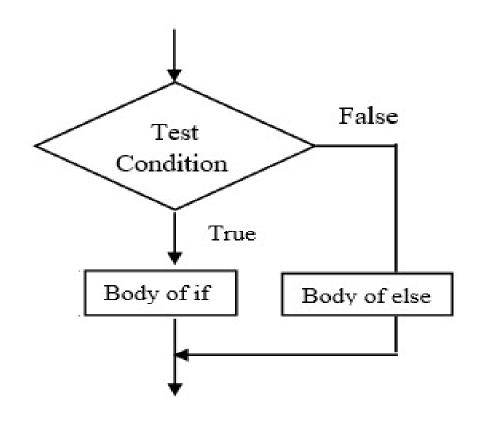


Fig. Flowchart of if-else

Flow Control: if, else





```
if name == 'Ramesh':
     print('Hi, Ramesh.')
elif name == 'Radha':
     print('Hi, Radha')
else:
     print('Hello, stranger.')
```

if-elif-else condition statement



Syntax

if condition-1:

statement 1

elif condition-2:

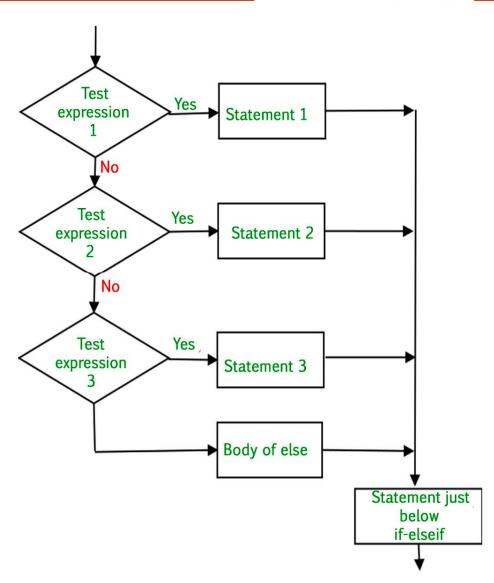
statement 2

elif condition-3:

statement 3

else:

statement



if-elif-else Example



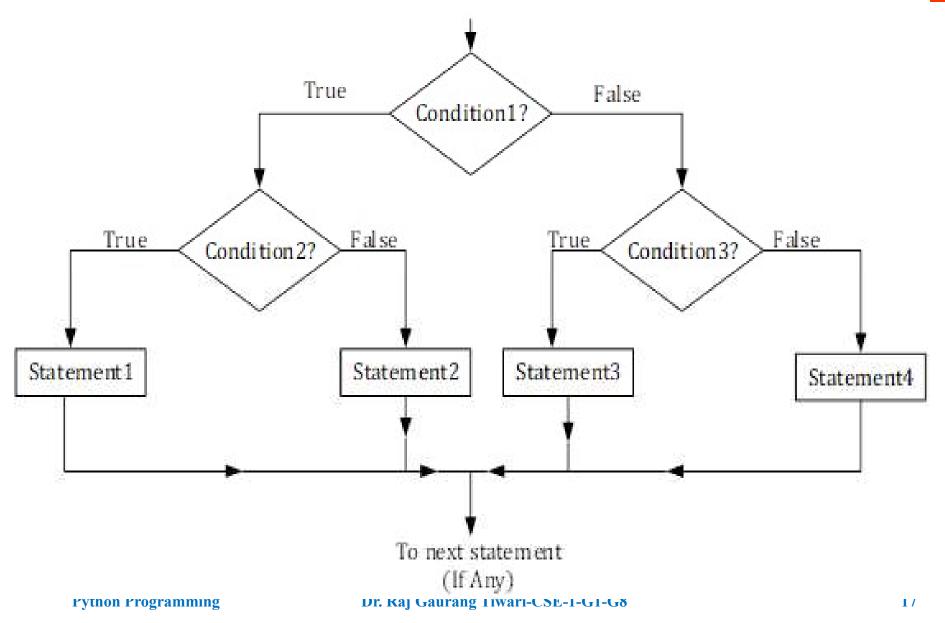
```
x=3
if x>10:
          print("x is big.")
elif x>0:
          print("x is small.")
else:
          print("x is not positive.")
```

Nested if



```
if (Condition1):
        if(Condition2):
                 Statement1
        else:
                 Statement2
 else:
        if(Condition3):
                Statement3
        else:
                Statement4
```



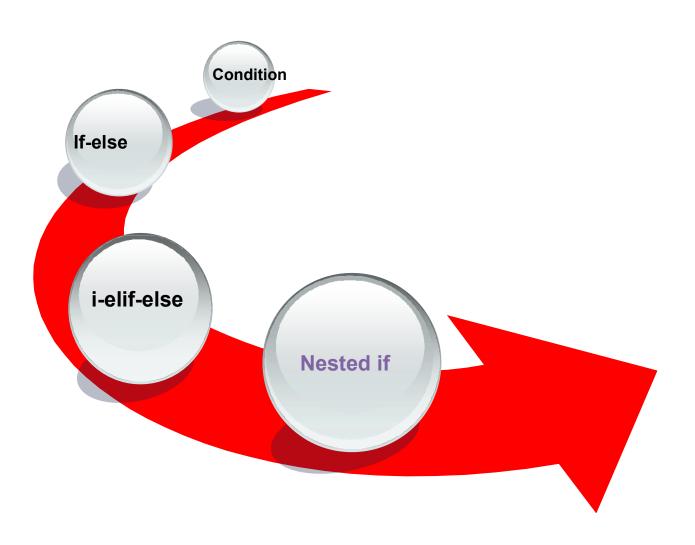


Example



Summery







Thank You!