Control statements

Ch-6

contents

- if -
- else -
- elif ~
- while
- for
- break
- continue
- pass
- assert
- return

if statement

• if-else-elif.ipynb

- Notice word indentation
 - mandatory

If..else statement

• if-else-elif.ipynb

- Notice word indentation
 - mandatory

If..elif..else statement

• if-else-elif.ipynb

- Notice word indentation
 - mandatory

while loop

• Syntax:

```
while condition:
Statements
```

while-loop.ipynb

for loop

• Syntax:

```
for somevar in sequence/range:
  loop statement(s)
```

break statement

- Used in the while and for loops
- When 'break' is executed,
 - the Python interpreter jumps out of the loop to process the next statement.

break-return-assert-pass.ipynb

continue statement

- Used in the while and for loops
- When 'continue' is executed,
 - the Python interpreter skips the remaining statements incurrent loop iteration.

break-return-assert-pass.ipynb

Pass statement

- The 'pass' statement
 - doesn't do anything.
 - Used as a place holder.
- Used inside 'if' statement or inside a loop
 - to represent no operation.
- We use it when
 - we need a statement syntactically but
 - we do not want to do any operation.
- break-return-assert-pass.ipynb

assert statement

- The 'assert' statement is
 - useful to check if a particular condition is fulfilled or not.
- Syntax:
 - assert expression, message
 - message is not compulsory
- E.g.
 - If we want to assure that the user must enter only a number > 0.
 - assert x > 0, "Wrong input entered."
 - Python interpreter checks if x>0 is True or False.
 - If it is True, then the next statements will execute.
 - Else, it will display assertion error.

return statement

- Used in user defined functions.
- Will be discussed later.