Python – Basics

Digital Lync

INNOVATION - EDUCATION - INCUBATION

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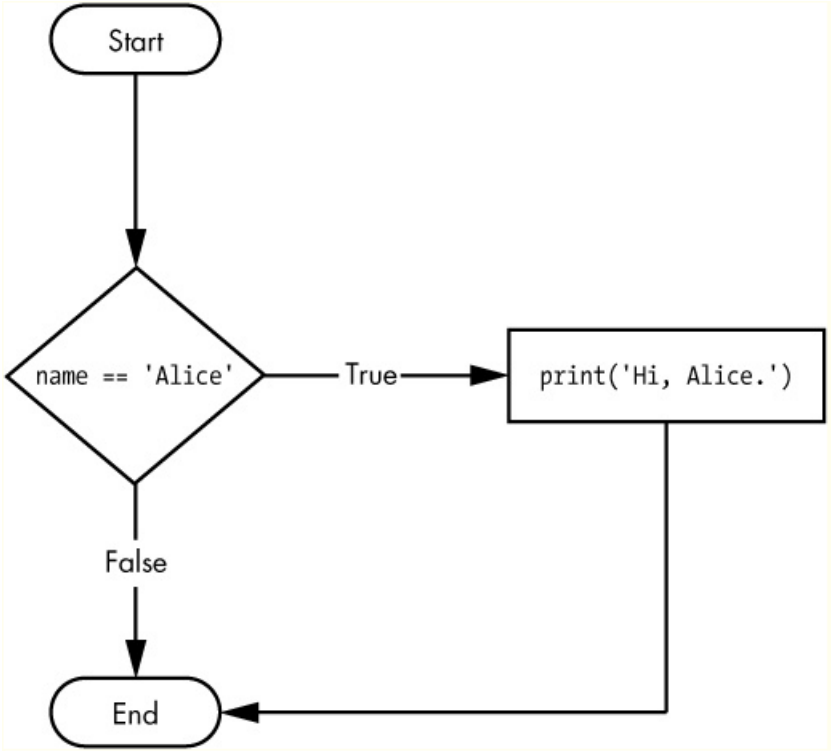
Condition Statement

If Statement:

Simple conditional statement where if condition satisfies sequential steps will be executed

Syntax:
*If(*Condition):

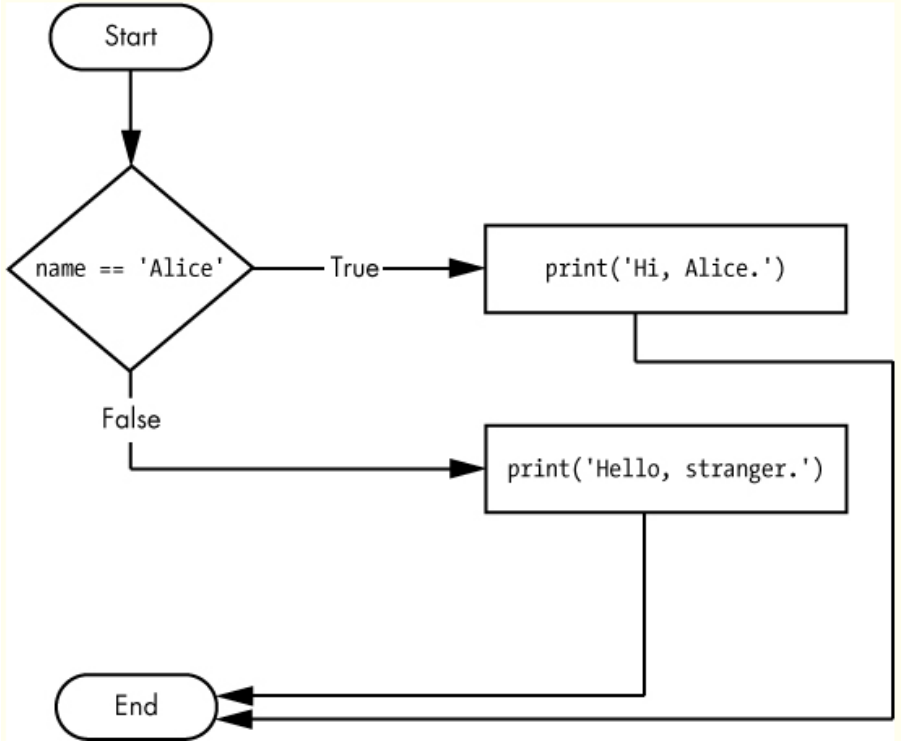
Statements



Condition Statement

If – else Statement:

A conditional statement where if condition satisfies sequential steps will be executed Else another set of statements will be executed



Syntax:
*If(*Condition):

Statements
-----
else:

Statements

Note: indentation is always of 4 space length

Condition Statement

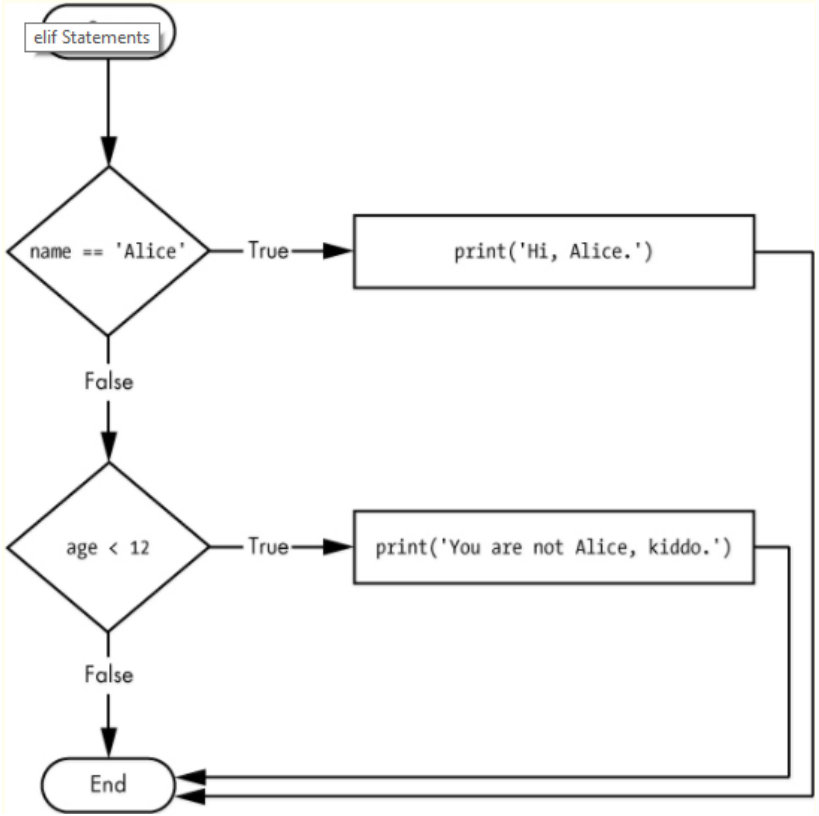
If – elif Statement:

Conditional statement where we compare more than one conditional statements at that point we use if – elif

Syntax:
*If(*Condition):

Statements
-----
elif:

Statements



Condition Statement

If – elif – else Statement:

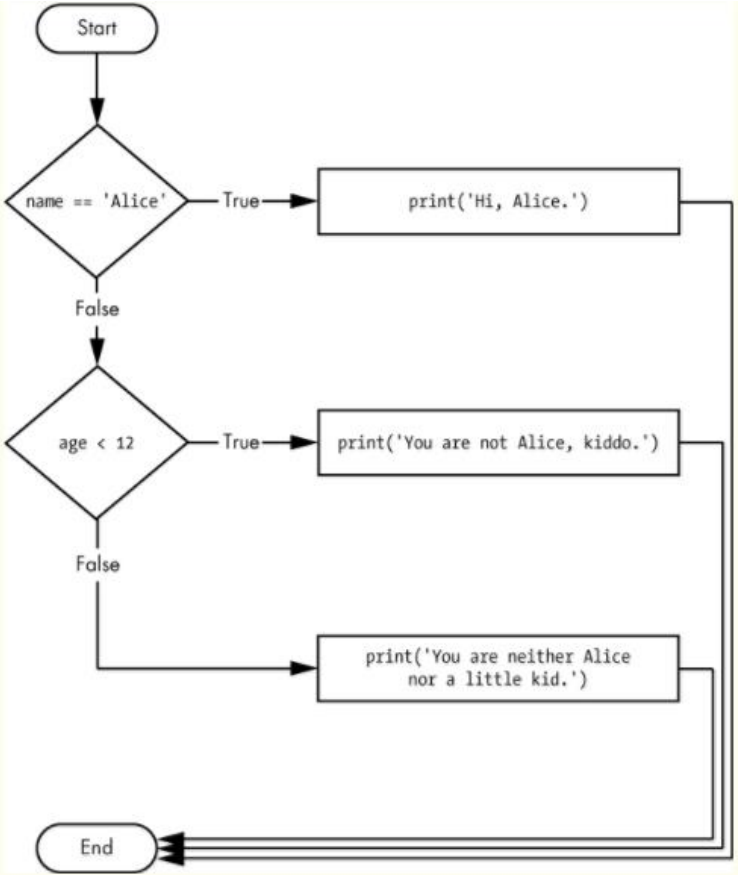
A conditional statement where if condition satisfies sequential steps will be executed Else another set of statements will be executed

Syntax:
*If(*Condition):

    Statements
    -----
elfi:

    Statements
    -----
else:

    Statements



Loops

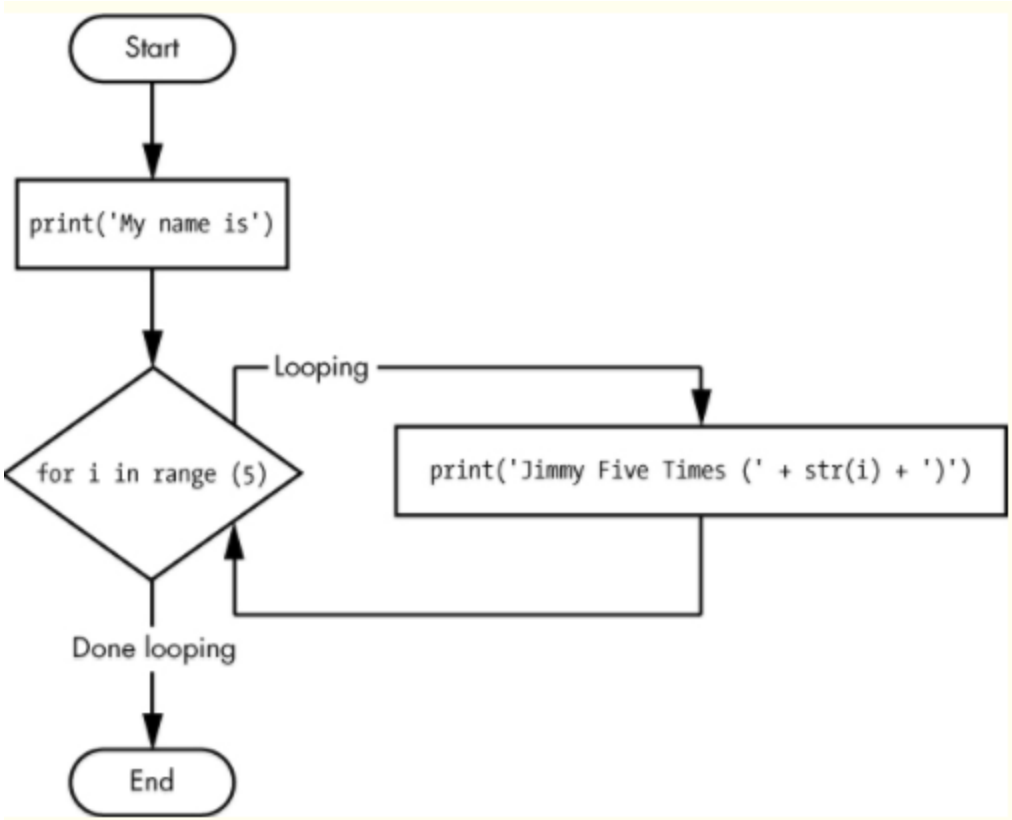
For Loop:

Loops are used in order to execute a set of statements until and unless a condition is satisfied

Syntax:

for x in range(1:5):

Statements



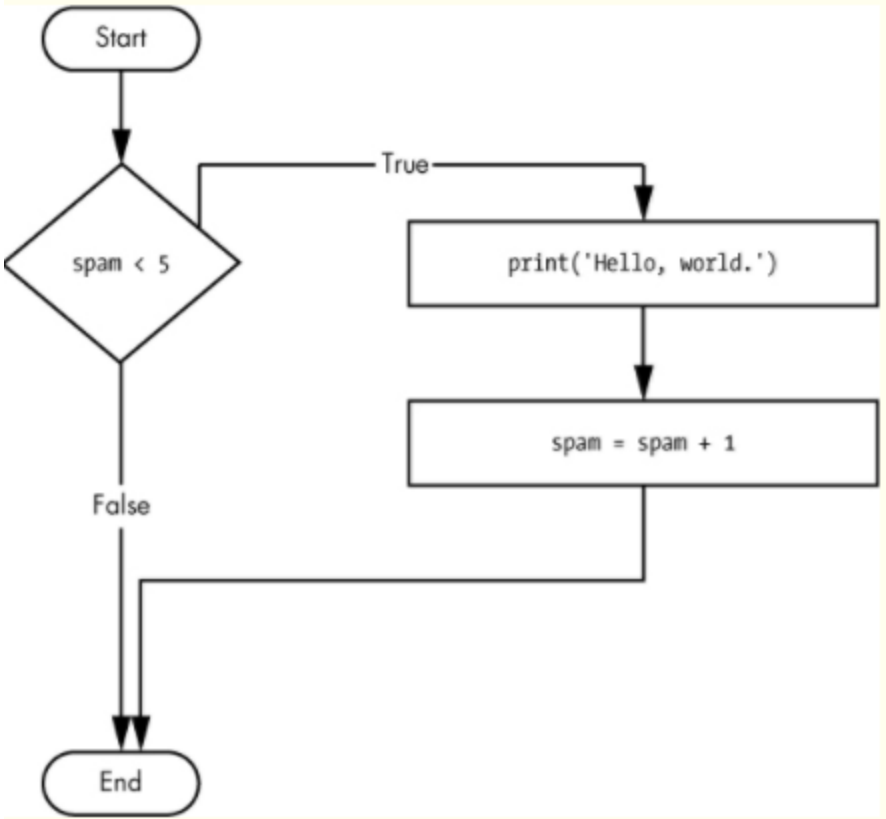
Loops

While Loops:

Similar to for loop but it defers by the way conditions are evaluated.

For loops are used to execute the statement for a defined number of time.

But while loops are executed unless condition is satisfied (iterations can be between 1 to many based on condition)



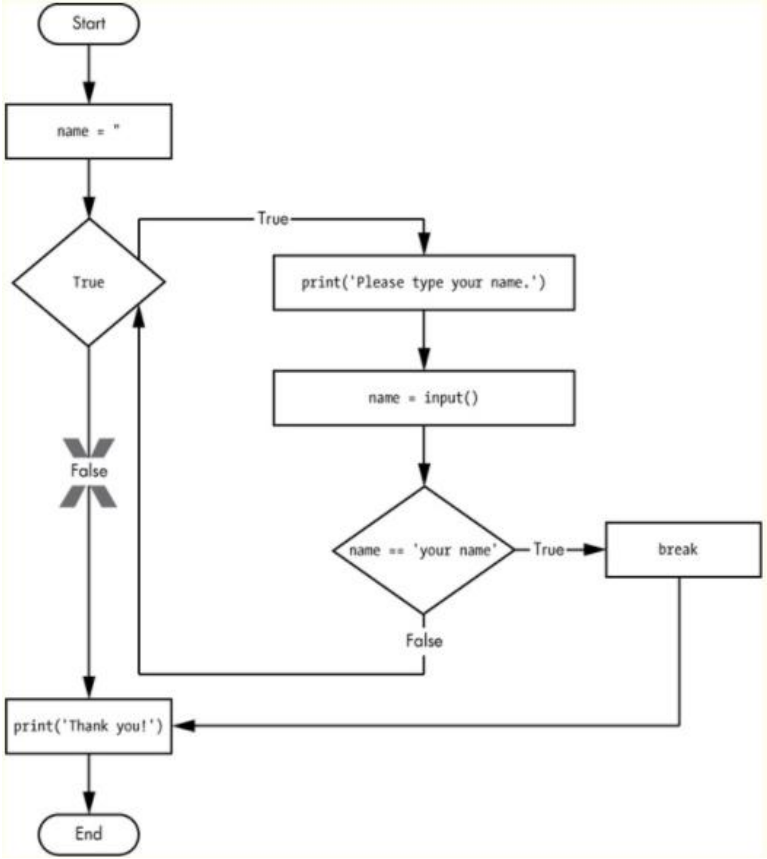
Loops

Break Statement:

Break terminates the current loop & resumes the execution of next steps

Syntax:

```
If (condition):
    break
----
Statements
----
```



Loops

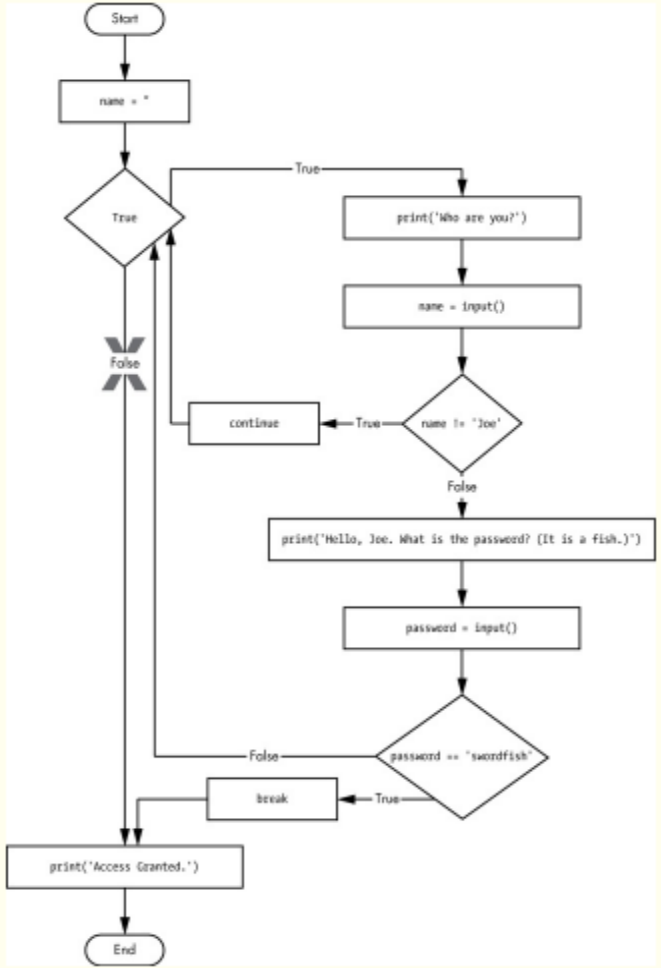
Continue Statement:

When a condition is satisfied continue statement loops back to the start of the loop without executing the sequential steps.

It gives us an option to skip over a part of the loop when condition satisfies.

Syntax:

```
for I in range(1:10):
    If I == 5:
        continue
    print(I)
```



Pass Statement:

Pass statement does nothing when a condition is satisfied.

Syntax:
*If(*Condition):
    pass

Pass statement is null operation, nothing happens when it executes.

Assignment - 3

1. Write a program to see how single condition and multiple condition based statement works. (hint: single condition based if-else)

2. Write a program to differentiate between for loop and while loop

3. Write a program to see how break, continue and pass works

4. Set up git and add assignment using git command or git tortoise or source tree