DIT gentle introduction to Python
2. Python 4 Poets

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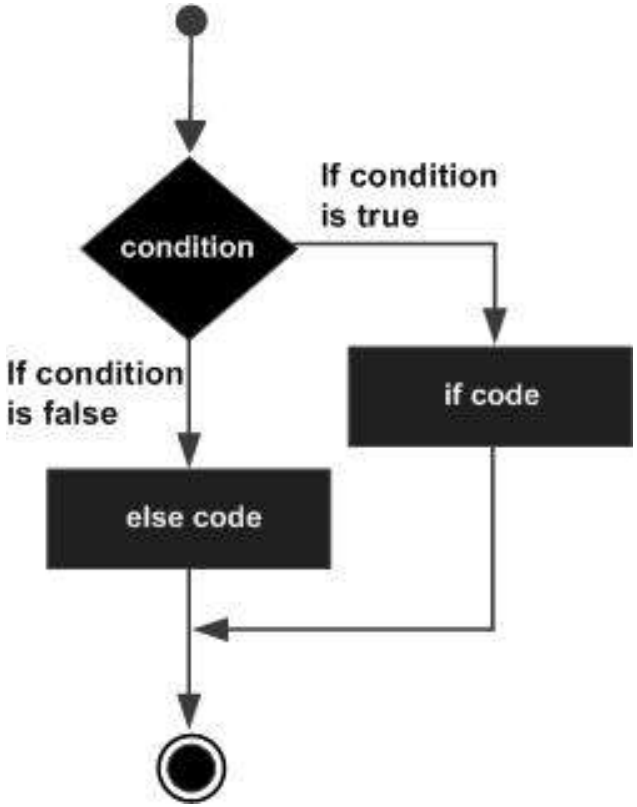
Programming

Diagram borrowed from L. Moroney's Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Conditionals and Loops



Diagrams borrowed from `https://www.tutorialspoint.com`

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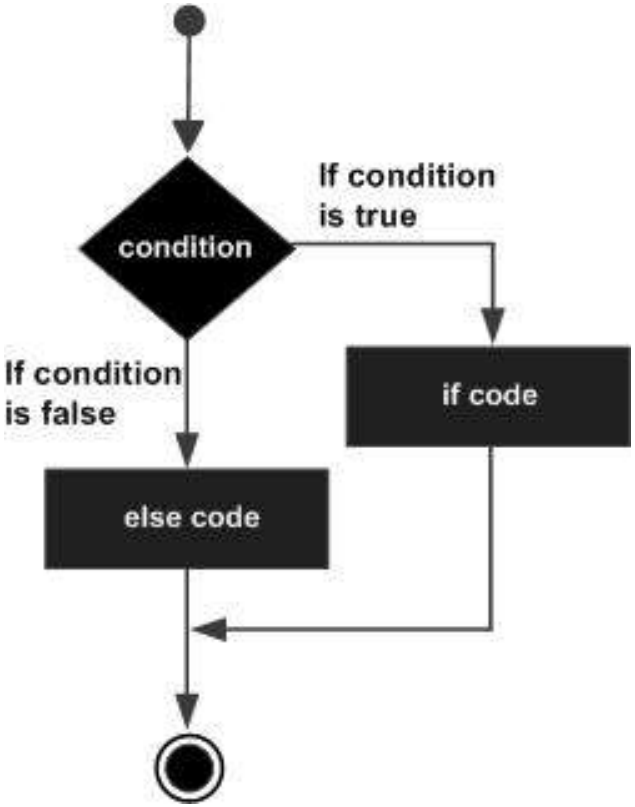

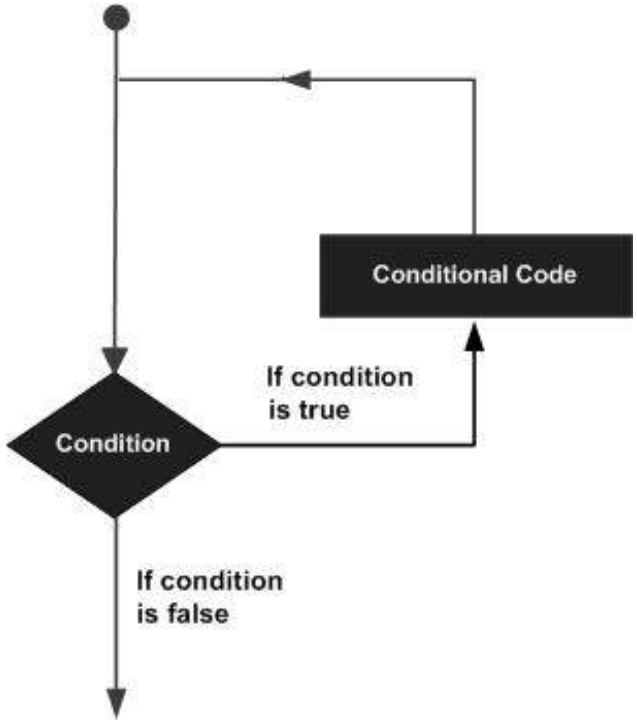

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Functions (methods)

A simple function

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    # function code
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A simple method to *salute* people

```
greeting_inputs = ("hey", "morning", "evening", "hi",
                   "whatsup", "hello")
greeting_responses = ["hey", "hey hows you?", "*nods*",
                   "hello, how you doing", "hello",
                   "Welcome, I am good and you"]

def generate_greeting_response(input):
    for token in input.split():
        if token.lower() in greeting_inputs:
            return random.choice(greeting_responses)
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Derived from

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- greeting_inputs is a **set**
- greeting_responses is a **list**

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```
generate_greeting_response("hi")
```

```
generate_greeting_response("ciao")
```

From Unix to Python

- Kenneth W. Church's **Unix for poets**[1]

[1] `https://web.stanford.edu/class/cs124/kwc-unix-for-poets.pdf`

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