1. Conditional Statement

1.1 If statement

The code blocks nested in if statement is executed when conditions under if statement is True. Usually, programmers put conditionally evaluated statement in True/False.

```
In [1]: if True:
    print('Conditional was True')
```

1.2 Comparisons

Conditional was True

```
Equals : ==Not Equal : !=Greater than : >Less than : <</li>Object Identity : is
```

The is comparison is used when we compare two objects in memory. The equal operator compare values of two object, and the identity obejct compare the id of each object.

1.3 Else statement

The code in else block is executed when coditions of if statement is False.

```
In [2]: language = "Java"

if language == "Python":
    print("Language is Python")
else:
    print("No match ")
No match
```

1.4 Elif satement

The elif keyword is used to eliminate the need for additional nesting levels.

1.5 Complex Conditional Statement

We can make more complex conditional statement using and, or, and not, called logical operator.

```
In [3]: user = 'Admin'
logged_in = False

if not logged_in:
    print("Please Log in")
else :
    print("Welcome!")
```

Please Log in

1.6 Values evaluated as True or False

- $\bullet~$ True : True, None zero of any numeric type, Any sequence with value
- False : False, 0, None, Any empty sequence, Any empty mapping