

```

1 # CONDITIONALS
2
3 """
4     CONDITIONALS:
5         --> IF
6         --> IF - ELSE
7         --> IF - ELSE IF - ELSE IF... ELSE
8         --> TERNARY
9     Empty Objects, Empty String, None and Zero evaluated as False by default
10 """
11
12 """
13     COMPARISON OPERATORS:
14         --> '==' OR 'is' --> Equal To
15         --> '>' --> Greater Than
16         --> '>=' --> Greater Than and Equal To
17         --> '<' --> Less Than
18         --> '<=' --> Less Than and Equal To
19         --> '!=' --> Not Equal To
20 """
21
22 """
23 IF STATEMENTS:
24     if condition:
25         do something
26 """
27 name = 'Abhishek'
28 if name.lower() == 'abhishek':
29     print('Hey Correct Name: ' + name);
30
31 """
32 IF-ELSE STATEMENTS:
33     if condition:
34         do something
35     else:
36         do something else
37 """
38 if name.lower() == 'dylan':
39     print('Correct Name')
40 else:
41     print('Incorrect Name')
42
43 """
44 IF-ELIF STATEMENTS
45     if condition:
46         do something
47     elif another condition:
48         do something
49     elif some other condition:
50         do something
51     else:
52         default something
53 """
54 day = 'SUn'
55 message = "It's "
56 if day.lower() == 'mon':
57     message += 'Monday'
58 elif day.lower() == 'tue':
59     message += 'Tuesday'
60 elif day.lower() == 'wed':

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61     message += 'Wednesday'
62 elif day.lower() == 'thu':
63     message += 'Thursday'
64 elif day.lower() == 'fri':
65     message += 'Friday'
66 elif day.lower() == 'sat':
67     message += 'Saturday'
68 elif day.lower() == 'sun':
69     message += 'Sunday'
70 else:
71     message = 'Invalid Option'
72
73 print(message)
74
75 """
76 is V/S ==
77 --> The == operator compares the values of both the operands and checks
    for value equality. Whereas is operator checks whether both the operands
    refer to the same object or not.
78 """
79
80 list1 = []
81 list2 = []
82 list3=list1
83
84 if (list1 == list2):
85     print("True")
86 else:
87     print("False")
88
89 if (list1 is list2):
90     print("True")
91 else:
92     print("False")
93
94 if (list1 is list3):
95     print("True")
96 else:
97     print("False")
98
99
100 """
101 LOGICAL OPERATORS:
102 --> 'and' --> {True, True}
103 --> 'or' --> {True, False} - {False, True}
104 --> 'not' --> Logical Negation
105 """
106 age = 12
107 name = 'abhishek'
108
109 if (name == 'abhishek') or (age > 16 and age < 60):
110     print("Can Participate In Race")
111 else:
112     print("Cannot Participate In Race")
113
114 if not (name == 'abhishek'):
115     print('Allowed')
116 else:
117     print(f"{name} is Blocked")
118

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119
120 """
121 TERNARY
122     --> [on_true] if [Expression] else [on_false]
123 """
124 name = 'jenn'
125 message = "You're Allowed" if name == 'joker' else "Not Allowed"
126 print(message)
```