

Boolean values



All value which are neither empty nor zero are **true**.

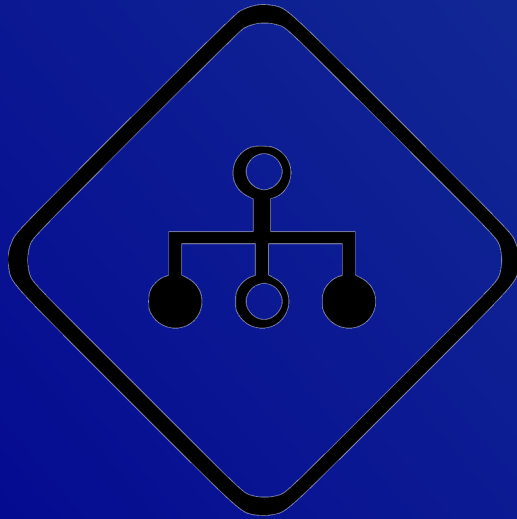
Empty collections & zero are **False**



Condition statements



It is used when you want to execute some code based on some condition.



1. If statement

2. If else statement

3. else If ladder statement

4. Nested if statements



if statement



It is used when you want to execute some code when condition is true.

```
If condition:  
    true_statements
```

```
If n%2==0:  
    print(n, " is even")
```



if else statement



It is used when you want to execute some code when condition is true or when condition is false.

```
If condition:  
    true_statements  
else:  
    false_statements
```

```
If n%2==0:  
    print(n," is even")  
else:  
    print(n," is odd")
```



else if statement



This is multi condition statement, when you want to check multiple condition on a single component

```
If condition:  
    true_statements_1  
elif condition:  
    true_statements_2  
elif condition:  
    true_statements_3  
...
```

```
else:  
    false_statements
```

```
If day==1:  
    print("Monday")  
elif day==2:  
    print("Tuesday")  
elif day==3:  
    print("Wednesday")  
...
```

```
else:  
    print("Invalid input")
```



Nested if statement



If statements in another if statement is known as nested statement.

```
If condition:  
    if condition2:  
        true_part  
else:  
    false_statements
```

```
If n%5==0:  
    if n%2==0:  
        print("Lucky number")  
else:  
    print("Better luck next time")
```



Iteration statements



It is used when you want to repeat execute some code based on some condition.

1. **for**

2. **while**

3. **Nested loop statements**

