Iterables example:

1. a = [1,2,3,4,5,6]
2. B = iter(a)
3. next(B)
4. Once all the element of a is completed it will raise the exception as StopIteration

**other\_cities = ["Strasbourg", "Freiburg", "Stuttgart",   
 "Vienna / Wien", "Hannover", "Berlin",   
 "Zurich"]  
  
city\_iterator = iter(other\_cities)  
while city\_iterator:  
 try:  
 city = next(city\_iterator)  
 print(city)  
 except StopIteration:  
 Break**

**List comprehension :**

**Celsius = [39.2, 36.5, 37.3, 37.8]**

**Fahrenheit = [ ((float(9)/5)\*x + 32) for x in Celsius ]**

**print(Fahrenheit)**

**[(x,y,z) for x in range(1,30) for y in range(x,30) for z in range(y,30) if x\*\*2 + y\*\*2 == z\*\*2]**

**It will generate the list of x,y,x which satisfy the above condition of right angle triangle**

**HASATTR:->**

**print (help(dir))# Define the Vehicle class**

**class Vehicle:**

**name = ""**

**kind = "car"**

**color = ""**

**value = 100.00**

**def description(self):**

**desc\_str = "%s is a %s %s worth $%.2f." % (self.name, self.color, self.kind, self.value)**

**return desc\_str**

**# Print a list of all attributes of the Vehicle class.**

**print(hasattr(Vehicle,'name'))**

**Closure function:**

**def print\_msg(number):**

**def printer():**

**"Here we are using the nonlocal keyword"**

**nonlocal number**

**number=3**

**print(number)**

**printer()**

**print(number)**

**print\_msg(9)**