Lists, random & functions in Python

**A list is an ordered sequence of values, where each value is identified by an index.**

Items in a list are identified by an index number that goes from 0 to len-1.

word = "cat"

word2 ="dog"

word3="bird"

word4="elephant"

animals=["cat", "dog", "bird", "elephant"]

|  |  |  |  |
| --- | --- | --- | --- |
| **cat** | **dog** | **bird** | **elephant** |
| **0** | **1** | **2** | **3** |

print("My ", animals[0], " is named Luna.") #animals[0] is the first word in the list

print('My', animals[1], 'is named Coop.')

print('I do not have a', animals[3],'or an', animals[3]+'.')

nouns=["house", "pencil", "computer", "ogre", "empire"]

verbs= ["devour", "programs", "go" , "squelch", "scream"]

**Random numbers in Python**

At the top of your code, after your name, **import random.**

**random.randint(low, high+1) # generates a random number**

rand = random.randint(1,101) #generates a random number between 1 and 100

The function **shuffle()** randomizes the items of a list in place.

**random.shuffle(listName)**

print(animals) #=["cat", "dog", "bird", "elephant"]

random.shuffle(animals) # mixes up the order of items in the list

print(animals)

**If you want to return a different item from the list, shuffle the list and return or print listName[0] (the first item in the list.**

def get\_animal():

random.shuffle(animals)

return animals[0]

print(get\_animal())

print(get\_animal())

print(get\_animal())