Random Module

Random variable generators

integers

uniform within range

sequences

pick random element

pick random sample

pick weighted random sample

generate random permutation

distributions on the real line:

uniform

triangular

normal (Gaussian)

List of Functions in Python Random Module to be covered

Function

Description

1. seed(a=None, version=2) Initialize the random number generator

2. getstate() Returns an object capturing the current internal state of the generator

3. setstate(state) Restores the internal state of the generator

4.	getrandbits(k)	Returns a Python integer with k random bits
5.	<pre>randrange(start, stop[, step])</pre>	Returns a random integer from the range
6.	randint(a, b)	Returns a random integer between a and b inclusive
7.	choice(seq)	Return a random element from the non-empty sequence
8.	shuffle(seq)	Shuffle the sequence
9.	choices(seq, k)	Returns a list with a random selection from the given sequence
10.	. sample(population, k)	Return a k length list of unique elements chosen from the population sequence
11.	. random()	Return the next random floating point number in the range [0.0, 1.0)
12.	. uniform(a, b)	Return a random floating point number between a and b inclusive
13.	. triangular(low, high, mode)	Return a random floating point number between low and high, with the specified mode between those bounds