

uniform(x, y):

It generates a floating-point value between x and y.

```
In [54]: random.uniform(6, 9)

Out[54]: 8.062847320971375
```

choice(seq):

Chooses a random element from a non-empty sequence seq.

```
In [56]: seq = (12, 33, 67, 55, 78, 90, 34, 67, 88)
         random.choice(seq)

Out[56]: 88
```

sample(population, k):

Selects k unique random elements from a population sequence or set.

```
In [59]: seq = (12, 33, 67, 55, 78, 90, 34, 67, 88)
         random.sample(seq, 3)

Out[59]: [33, 12, 88]
```

shuffle(x):

Shuffles list x in place.

```
In [61]: l = [10, 20, 30, 40, 50]
         random.shuffle(l)
         print(l)

[20, 40, 30, 10, 50]
```

seed(x):

Generates the same sequence of random numbers every time you call seed(x).

```
In [63]: # seed value = 3
         random.seed(3)
         for i in range(3):
             print(random.random(), end = ' ')

         print('\n')

         # seed value = 8
         random.seed(8)
         for i in range(3):
             print(random.random(), end = ' ')

         print('\n')

         # whenever we call the seed() function with same value, it will produce the exact same sequence of random numbers
         # seed value again = 3
         random.seed(3)
         for i in range(3):
             print(random.random(), end = ' ')

         print('\n')

         # seed value = 8
         random.seed(8)
         for i in range(3):
             print(random.random(), end = ' ')

         print('\n')

0.23796462709189137 0.5442292252959519 0.36995516654807925
0.2267058593810488 0.9622950358343828 0.12633089865085956
0.23796462709189137 0.5442292252959519 0.36995516654807925
0.2267058593810488 0.9622950358343828 0.12633089865085956
```

Creating a list with random integers

```
In [64]: numbers = []

         for _ in range(10):
             num = random.randrange(10, 100)
             numbers.append(num)

         print(numbers)

[15, 20, 27, 41, 74, 36, 61, 92, 13, 68]
```

```
In [65]: numbers = [random.randrange(10, 100) for _ in range(10)]
         print(numbers)

[72, 68, 59, 73, 83, 34, 61, 21, 72, 39]
```

FAQ's :

- What is datetime module in Python ?
- What is datetime datetime.now() in Python ?
- How to print the date and time in Python ?
- How do you compare two times in Python ?
- How does Python calculate datetime difference ?
- What is datetime module in Python ?
- How to pick randomly from an array or a list ?
- Difference between random.randrange() and random.randint() ?
- Difference between random.uniform() and random.random() ?
- Difference between random.choices() and random.sample() ?

To - Do

Date Time

- Write a program to Know the Day of the Given Date?
- Generate a List of Dates from a Given Date
- Take date of births of 3 persons and print who is elder
- Subtract a week (7 days) from a given date in Python
- Add a week (7 days) and 12 hours to a given date
- Print current time in milliseconds
- Convert the following datetime into a string : given_date = datetime(2020, 2, 25)
- Calculate the date 4 months from the current date

Random

- Write a program to Generate 6 digit random secure OTP
- Write a program to randomly generate a floating-point number between 2.5 and 7.3
- Write a program to print a random value from the list [Phil, Cam, Luke, Lily, Jay, Cameron, Michelle].
- Write a program to shuffle the list [4, 5, 6, 7, 8, 9, 10]
- Pick a random character from a given String
- Write a program to Generate random String of length 5
- Write a program to create a list with 4 random ten-digit integers
- *Generate a random Password which meets the following conditions :
Password length must be 10 characters long.
It must contain at least 2 upper case letters, 1 digit, and 1 special symbol.
- Generate a random date between given start and end dates
- Write a Program to Roll dice in such a way that every time you get the same number
- Random Lottery Pick : Generate 100 random lottery tickets and pick two lucky tickets from it as a winner:
The lottery number must be 10 digits long..
All 100 ticket number must be unique.

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