* Getting started with random
* Overview of functions in random
* Generate random integers
* Using list for random choice
* Real world example - Generate Test Data
* Generate delimited strings or records
* Exercise and Solution

1. What is the purpose of the random module in Python?

a. To generate random data

b. To perform mathematical calculations

c. To manipulate strings

d. To handle file I/O

Answer: a. To generate random data

1. Which function can be used to generate a random integer between two specified values in Python?

a. random()

b. randint()

c. choice()

d. shuffle()

Answer: b. randint()

1. What is the purpose of the random.choice() function in Python?

a. To select a random integer from a range of values

b. To select a random item from a list

c. To shuffle a list randomly

d. To generate a random float between two values

Answer: b. To select a random item from a list

1. How can the random module be used to generate test data for a database?

a. By generating random integers and strings

b. By shuffling lists randomly

c. By generating random records with delimited data

d. All of the above

Answer: d. All of the above

1. What function can be used to generate a random float between 0 and 1 in Python?

a. random()

b. randint()

c. choice()

d. shuffle()

Answer: a. random()

1. Which function can be used to randomly shuffle the elements of a list in Python?

a. random()

b. randint()

c. choice()

d. shuffle()

Answer: d. shuffle()

1. How can the random module be used to generate random passwords in Python?

a. By generating random integers and strings

b. By shuffling lists randomly

c. By generating random records with delimited data

d. None of the above

Answer: a. By generating random integers and strings

1. Which function can be used to generate a random choice from a weighted list in Python?

a. random()

b. randint()

c. choice()

d. choices()

Answer: d. choices()

1. How can the random module be used to generate random dates in Python?

a. By generating random integers and strings

b. By shuffling lists randomly

c. By using the date function

d. None of the above

Answer: c. By using the date function

1. Which function can be used to generate a random sample from a list without replacement in Python?

a. random()

b. randint()

c. choice()

d. sample()

Answer: d. sample()