Module

# Assignment level Basic

**B1. How can you pick a random element from a list or tuple?**

For this purpose, there is a function called **‘choice’** in random module. So first, we will have to import the **random** module using import statement. Then we can call the choice function and we will have to pass a non-empty list or tuple as an argument. That statement will return a randomly selected element from passed list or tuple.

>>> import random

>>> print(random.choice([1, 2, 3, 4, 5]))

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**B2. How can you pick a random item from a range?**

For this purpose also, there is a function called **‘choice’** in random module. So first, we will have to import the **random** module using import statement. Then we can call the choice function and we will have to pass a range object as an argument. That statement will return a randomly selected element from passed range object.

>>> import random

>>> print(random.choice( range(0, 5, 1) ))

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**B3. How can you get a random number in python?**

For this purpose also, there is a function called **‘randint’** in random module which will take two numbers as its argument. So first, we will have to import the **random** module using import statement. Then we can call the randint function and we will have to pass two numbers as arguments. That statement will return a randomly selected element from passed range.

>>> import random

>>> print(random.randint( 10, 20 ))

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**B4. How will you set the starting value in generating random numbers?**

By using the function called **‘randrange’** in random module to generate random number which will take two parameters and one optional parameter. So first, we will have to import the **random** module using import statement. Then we can call the randrange function and we will have to pass two numbers as arguments. In which the first argument we specify will be our starting value. So that is how we can generate random number with specified starting value. That statement will return a randomly selected element from passed range.

>>> import random

>>> print(random.randrange( 10, 20 ))

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**B5. How will you randomize the items of a list in place?**

For this purpose also, there is a function called **‘shuffle’** in random module which will take one list as its argument. So first, we will have to import the **random** module using import statement. Then we can call the shuffle function and we will have to pass one list as argument. That statement will randomize passed list. This function will return None.

>>> import random

>>> list1 = [1, 2, 3, 4, 5, 6]

>>> random.shuffle( list1 )

>>> print(list1)

[6, 5, 3, 1, 4, 2]