

E) Search for 5 famous modules in python and write down how to import them and what are they used for:

- **math module methods:**

- All of these functions are related to rounding.

1-ceil() : always rounds upwards

2-floor() : Return the floor of x , the largest integer less than or equal to x .

EXAMPLE:

```
import math
print(round(3.1))
print(round(3.6))
print(math.ceil(3.1))
print(math.floor(3.6))
```

OUTPUT:

```
3
4
4
3
```

-**Random functions** : The Random module contains some very useful functions

1- Randint: If we wanted a random integer, we can use the randint function. Randint accepts two parameters: a lowest and a highest number. Generate integers between 1,5. The first value should be less than the second

```
import random
print(random.randint(0, 5))
```

OUTPUT : 1, 2, 3, 4 or 5.

2- random(): Return the next random floating point number in the range [0.0, 1.0).

```
import random
random.random() * 100
```

3-Choice : Generate a random value from the sequence sequence.

```
random.choice( ['red', 'black', 'green'] ).
```

The choice function can often be used for choosing a random element from a list.

```
import random  
myList = [2, 109, False, 10, "Lorem", 482, "Ipsum"]  
random.choice(myList)
```