1. Use for loop to generate 3 random integers between 100 and 999 which is divisible by 5.

```
Generating 3 random integer number between 100 and 999 divisible by 5
115, 370, 490,
```

2.The Logistic distribution is used in Extreme Value problems where it can act as a mixture of Gumbel distributions. Draw samples from a logistic distribution and plot it. loc=10, scale=1 and size =1000.

3. Generate 6 digit random secure OTP.

```
Generating 6 digit random OTP
Secure random OTP is  874774
```

4. Pick a random character from a given string such as "Simulation and modeling"

```
random char is  i
```

5. Import string and random module. Generate a string with 5 characters with UPPER case and

```
Random String is  EcWqc
```

6. Import string and random module. Generate a Password with length 10 which contains 2 upper case letters, 1 digit, and 1 special symbol.

```
Password is  V2?.p3Sm+N
```

7. First generate evenly spaced values within 0 to 9. Give it new shape 3x3. Then randomly permute it.

```
array([[0, 1, 2],
       [6, 7, 8],
       [3, 4, 5]])
```

8. Generate random secure token of 64 bytes and random URL

```
Random secure Hexadecimal token is  85f6578951df0edade4ebcb0987907a6ea0dac87620a99bbb96k
Random secure URL is  RbzBATjWf11btNPYru-MS3O5hjP__cQFViD7vpkFUN_P_olxXLENFkYzojOHUuk_EZ
```

9. Pick a random number from 1 to 6. Do it in such a way that every time you must get the same random output number(no hard coding numbers). do this 5 times.

```
Randomly selecting same number of a dice
4
4
4
4
4
```

10. Write an interactive Python program to play a "guess the number" game. The computer should think of a random integer between 1 and 20 and the user (player) has to try to guess the number within six attempts. The program should let the player know if the guess is too high or too low.

```
Hi! What is your name? John
Welcome, John! I am thinking of an integer between 1 and 20.
Take a guess and type the integer? 14
Your guess is too high.
Take a guess and type the integer? 3
Your guess is too high.
Take a guess and type the integer? 1
Well done John! You guessed my number in 3 guesses!
```