```
In [1]:  import random
```

```
In [2]:  import string
```

1. Generate 6 digit random secure OTP

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In [3]:  print(random.randint(1,999999))
```
```
         112136
```

2.Generate random string length 5 **String must be the combination of the UPPER case and lower case letters only. No numbers and a special symbol.

```
In [5]:  #Function to generate random string default length is 5 characters.
         def random_string(length=5):
             character_lower=''
             character_upper=''
             character_special=''

             #character sets of lower case, upper case letters and special symbol
             character_lower=string.ascii_lowercase
             character_upper=string.ascii_uppercase
             character_special=string.punctuation

             #selecting 1 lower case, 1 upper case letter and 1 special character
             random_str=random.choice(character_lower)
             random_str+=random.choice(character_upper)
             random_str+=random.choice(character_special)

             # rest of the characters (length of password - 3 ( 3 characters already choosen al
             random_str+=''.join( random.choice(string.ascii_letters) for i in range(length-3))

             #shuffling the characters of random password string
             return(''.join(random.sample(random_str,len(random_str))))


         my_random_string=random_string()
         print(my_random_string)
```
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         GI,fm
```

1. Generate a random Password which meets the following condition **Password must be 10 characters long** It must contain at least 2 upper case letters, 1 digit, and 1 special symbol.

```
In [7]:  #Function to generate random password default length is 10 characters.
         def random_password(length=10):
             character_number=''
             character_upper=''
             character_special=''

             #character sets of nubers, upper case letters and special symbol
             character_number=string.digits
             character_upper=string.ascii_uppercase
             character_special=string.punctuation

             character_all=string.ascii_letters+string.digits+string.punctuation

             #selecting 1 number, 2 upper case letter and 1 special character (mandatory req o
             random_str=random.choice(character_number)
             random_str+=random.choice(character_upper)+random.choice(character_upper)
             random_str+=random.choice(character_special)

             # rest of the characters (length of password - 4 ( 4 characters already choosen al
             random_str+=''.join( random.choice(character_all) for i in range(length-4))

             #shuffling the characters of random password string and returning the final randor
             return(''.join(random.sample(random_str,len(random_str))))


         my_random_password=random_password()
         print(my_random_password)
```
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         Hz){vv1&dG
```

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In [ ]:
```