**Create a Random Password Generator using Python**

## ****Modules needed****

**string –**For accessing string constants. The ones we would need are:

* **string.ascii\_letters:**  ASCII is a system that is used to represent characters digitally, every ASCII character has its own unique code. string.ascii\_letters is a string constant which contains all the letters in ASCII ranging from A to Z and a to z. Its value is non-locale dependent and it is just a concatenation of ascii\_uppercase and ascii\_lowercase. Thus it provides us the whole letter set as a string that can be used as desired.
* **string.digits:** This is a pre-initialized string that contains all the digits in the Arabic numeral system i.e. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9. It should be kept in mind that even though these are digits, the type is still a string constant, and all digits are concatenated like this – “0123456789”. If we want to access specific numbers then we can do so using slicing.
* string.punctuation: Apart from letters and digits, python also provides us all the special characters in a pre-initialized string constant. These include various kinds of braces, logical operators, comparison operators, arithmetical operators as well as punctuation marks like commas, inverted commas, periods, exclamations marks, and question marks. The whole string is – !”#$%&'()\*+, -./:;<=>?@[\]^\_`{|}~

**random –** The python random module helps a user to generate pseudo-random numbers.

import random

import string

charvalues=string.ascii\_letters + string.digits + string.punctuation

print(charvalues)

limit=int(input("enter the password limit:"))

count=0

password=" "

while count<limit:

    password += random.choice(charvalues)

    count+=1

print("generated password is:",password)

OUTPUT:

enter the password limit:10

generated password is: c'~8qt]=,K