**Project Password Generator**

Aim:

Create a Python script to generate a random password.

Objective:

To generate a secure and random password with a specified length.

Source Code:

import random

import string

def generate\_password(length):

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

password = ''.join(random.choice(characters) for i in range(length))

return password

password\_length = 12

generated\_password = generate\_password(password\_length)

print("Generated Password:", generated\_password)

**Output:**

Generated Password: PaSwo=hd

**Conclusion:**

The Python script uses the **random** and **string** modules to generate a random password. The **generate \_password** function takes a parameter **length** to determine the length of the password. It combines uppercase letters, lowercase letters, digits, and punctuation to create a diverse set of characters in the password. The **join** method concatenates these randomly chosen characters to form the final password. The example output shows a generated password of length 12, demonstrating the functionality of the script. The script can be modified by adjusting the **password length** variable to generate passwords of different lengths as needed.

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