**SIMPLE PASSWORD GENERATOR**

**Objective :-**

* The goal of this project is to create a random password generator that allows user’s to generate strong passwords of their desired length.
* This helps improve security by generating unpredictable password using a mix of letters, numbers and special character.

**Technologies Used :-**

* Python
* Random Module ( for selecting random character )
* String Module ( for predefined character set like letters, digits and punctuation )

**Features :-**

* User input the desired password length.
* Generates a random password using uppercase, lowercase and symbols.
* Ensures a secure and unique password each time.

**Code :-**

import random  
import string  
  
def password\_generater(password\_size):

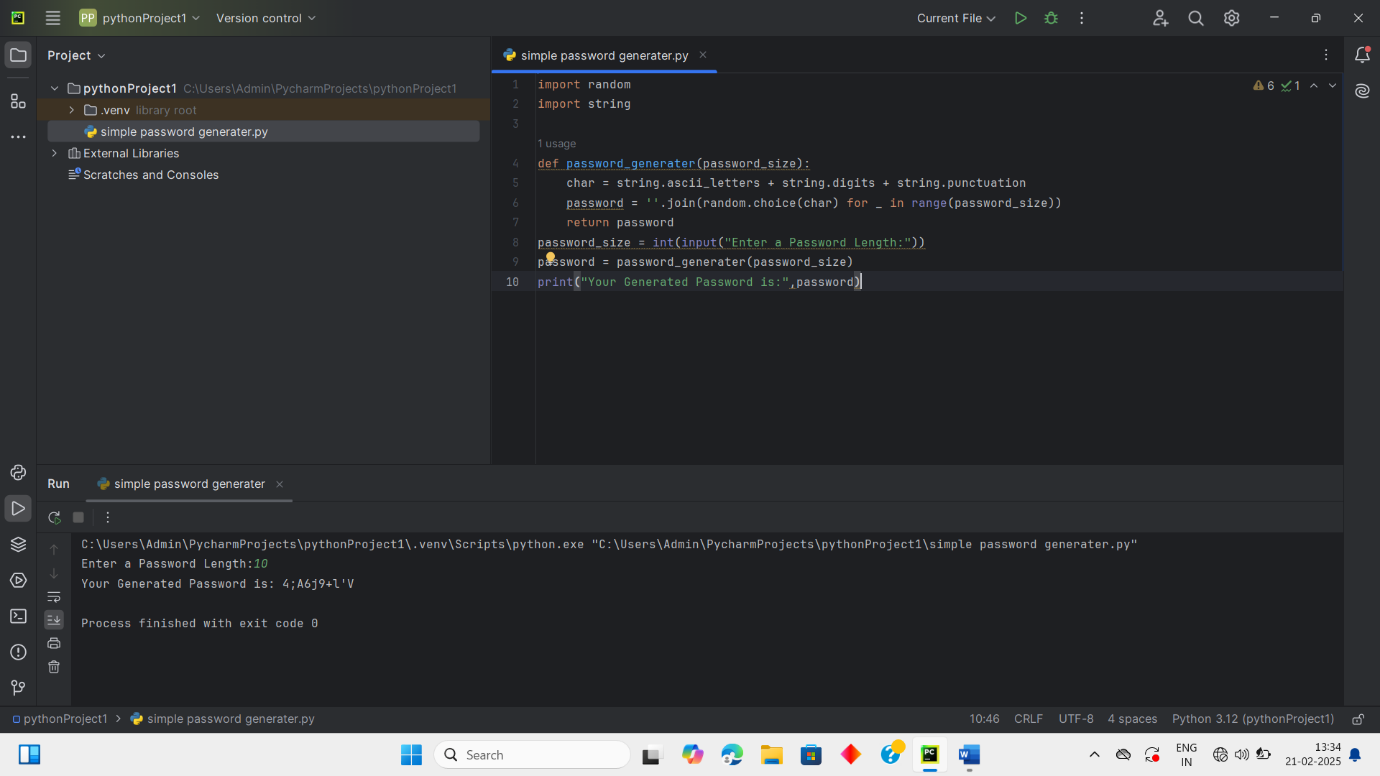
char = string.ascii\_letters + string.digits + string.punctuation  
 password = ''.join(random.choice(char) for \_ in range(password\_size))  
 return password

password\_size = int(input("Enter a Password Length:"))  
password = password\_generater( password\_size )  
print("Your Generated Password is:", password)

**How it works :-**

* The user inputs a password length ( eg – 8, 12, 15 or 17 character ).
* The program selects random character from a mix of alphabets , numbers and symbols.
* A password is generated and displayed on the screen.
* The user can copy the password for use.

**Output:-**

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