WRITE A PROGRAM CODE FOR PASSWORD GENERATOR

AIM:

To create a program code for password gendrator

OBJECTIVE:

1.   Security: Generate strong, unpredictable passwords to enhance resistance against brute force and other attacks.

2.   Customization: Allow users to specify password length and character types to meet specific security policies or requirements.

3.   Ease of Use: Design an intuitive and user-friendly interface or integration for seamless interaction.

4.   Versatility: Create a modular and adaptable code structure for easy integration into various applications or systems.

5.   Randomness: Implement a robust randomization algorithm, using a reputable source like Python's secrets module, to ensure truly random password generation.

PROGRAM:

```
 import random
import string

def generate_password(length=12):
    characters = string.ascii_letters + string.digits + string.punctuation
    password = ''.join(random.choice(characters) for _ in range(length))
```

```
    return password
```

Example: Generate a password with default length (12 characters)

password = generate_password()

print("Generated Password:", password)

OUTPUT:

```
 →  Generated Password: JU`e>fEWS`#9
```

CONCLUSION:

    I have created a password genarator using python and it executed successfully.