# TASK:3

A password generator is a useful tool that generates strong and random passwords for users. This project aims to create a password generator application using Python, allowing users to specify the length and complexity of the password.

User Input: Prompt the user to specify the desired length of the password.

Generate Password: Use a combination of random characters to generate a password of the specified length.

Display the Password: Print the generated password on the screen.

### CODE:

```
characterList += string.ascii_letters
    elif(choice == 2):
        characterList += string.digits
    elif(choice == 3):
        characterList += string.punctuation
    elif(choice == 4):
        break
    else:
        print("!Please choose a valid option!")
password = []
for i in range(length):
    randomchar = random.choice(characterList)
    password.append(randomchar)
print("The random password is " + "".join(password))
```

### **OUTPUTS:**

## 

### Output

Enter required password length: 8
Choose character set for password from these :

- 1. letters
- 2. digits
- 3. special characters
- 4. exit

Pick a number 1

Pick a number 9

!Please choose a valid option!

Pick a number

#### Output

```
Enter required password length: 10
```

Choose character set for password from these :

- 1. letters
- 2. digits
- 3. special characters
- 4. exit

Pick a number 1

Pick a number 2

Pick a number 4

The random password is udcXuVa5zT

=== Code Execution Successful ===