CODEWAY

Task-3:- PASSWORD GENERATOR

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

In [1]:

```
import random

letters = [
    'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', '
    'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z', 'A', 'B', 'C', '
    'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', '
    'T', 'U', 'V', 'W', 'X', 'Y', 'Z'
]
numbers = ['0', '1', '2', '3', '4', '5', '6', '7', '8', '9']
symbols = ['!', '#', '$', '%', '&', '@', '?', '*', '+']

print("Welcome to the Password Generator!")
nr_letters = int(input("How many letters would you like in your password?\n
nr_symbols = int(input(f"How many symbols would you like?\n"))
nr_numbers = int(input(f"How many numbers would you like?\n"))

password_list = []

for char in range(1, nr_letters + 1):
    password_list.append(random.choice(letters))

for char in range(1, nr_symbols + 1):
    password_list.append(random.choice(numbers))

for char in range(1, nr_numbers + 1):
    password_list.append(random.choice(symbols))

random.shuffle(password_list)

password = ""
for char in password_list:
    password += char
print("char", char)

# convert list to string
pwd = ''.join(password_list)
print(f"Your Random password to use is: {pwd}")
```

```
Welcome to the Password Generator!
How many letters would you like in your password?
5
How many symbols would you like?
2
How many numbers would you like?
2
char Z
Your Random password to use is: Q@ofO9?1Z
```

Thankyou!!