1. قم بعمل برنامج يولد كلمة مرور قوية بشكل عشوائي، بحيث
   تحتوي على حروف وأرقام ورموز مميزة،
   ويحدد المستخدم طول كلمة المرور المرغوب به.

Make a program that generate strong random password containing letters, numbers, and punctuations, with the user desired length.

{codezilla}

إذا لم توفق للوصول للحل يمكنك السعي مرة أخرى بمساعدة الخطوات التالية

```
# 1. Write a program that generates a random password of a given length.

# get the desired password length

# Initialize the password string

# Loop until the password string has the desired length


    # Add a random character from a set of letters, digits, and punctuation

# Print the generated password
```

{codezilla}

```python
import random
import string


# get the desired password length
password_length = int(input("Enter the desired password length: "))

# Initialize the password string
password = ""

# Loop until the password string has the desired length
while len(password) < password_length:

    # Add a random character from a set of letters, digits, and punctuation
    characters = string.ascii_letters + string.digits + string.punctuation
    random_character = random.choice(characters)
    password += random_character

# Print the generated password
print(f"Generated password: {password}")
```

{codezilla}

2. قم بعمل برنامج يولد كلمة مرور قوية بشكل عشوائي، بحيث تحتوي على حروف Capital فقط وأرقام ورموز مميزة، ويحدد المستخدم طول كلمة المرور المرغوب به.

Make a program that generate strong random password containing **big letters**, numbers, and punctuations, with the user desired length.

{codezi//a}

إذا لم توفق للوصول للحل يمكنك السعي مرة أخرى بمساعدة الخطوات التالية

```
# 1. Write a program that generates a random password of a given length.

# get the desired password length

# Initialize the password string

# Loop until the password string has the desired length


    # Add a random character from a set of letters, digits, and punctuation

# Print the generated password
```

{codezilla}

```python
import random
import string


# get the desired password length
password_length = int(input("Enter the desired password length: "))

# Initialize the password string
password = ""

# Loop until the password string has the desired length
while len(password) < password_length:

    # Add a random character from a set of letters, digits, and punctuation
    characters = string.ascii_uppercase + string.digits + string.punctuation
    random_character = random.choice(characters)
    password += random_character

# Print the generated password
print(f"Generated password: {password}")
```

{codezilla}

3. قم بعمل برنامج يولد كلمة مرور قوية بشكل عشوائي، بحيث تحتوي على حروف وأرقام ورموز مميزة،
ويحدد المستخدم طول كلمة المرور المرغوب به، ويكون على الأقل نصفها يتكون من حروف.

Make a program that generate strong random password containing letters, numbers, and punctuations, with at least half of it are letters, with the user desired length.

{codezi//a}

{//}

إذا لم توفق للوصول للحل يمكنك السعي مرة أخرى بمساعدة الخطوات التالية

```
# Get the desired password length from the user


# Define the characters that can be used in the password

# Define the number of letters in the password
                    # we add 1 if the length is odd



# Add the letters to the password

# Add the other characters to the password

# Shuffle the password

# Convert the password to a string

# Print the generated password
```

{codezi//a}

{//}

```python
import random
import string


# Get the desired password length from the user
length = int(input("Enter the desired password length: "))


# Define the characters that can be used in the password
characters = string.ascii_letters + string.digits + string.punctuation

# Define the number of letters in the password
letter_count = length // 2 + length % 2 # we add 1 if the length is odd

# Generate the password
password = []


# Add the letters to the password
i = 0
while i < letter_count:
    password.append(random.choice(string.ascii_letters))
    i += 1

# Add the other characters to the password
while len(password) < length:
    password.append(random.choice(characters))


# Shuffle the password
random.shuffle(password)

# Convert the password to a string
password = "".join(password)

# Print the generated password
print(f"Generated password: {(password)}")
```

{codezi//a}