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## **Password Generator**

This is the solution to the password generator project.

## Instructions

Inside the file, you'll use three lists already saved to a corresponding variable: letters, numbers, and symbols.

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

The program will start:

```
Welcome to the PyPassword Generator!
```

The program will ask:

```
How many letters would you like in your password?
4
```

```
How many symbols would you like?
2
```

```
How many numbers would you like?
3
```

The objective is to take the inputs from the user to these questions and then generate a random password.

Use your knowledge about Python lists and loops to complete the challenge.

## Easy Version (Step 1)

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Generate the password in sequence. If the user wants

- 4 letters
- 2 symbols
- 3 numbers

then the password might look like this:

fgdx\$\*924

You can see that all the letters are together.

All the symbols are together and all the numbers follow each other as well.

Try to solve this problem first.

## Hard Version (Step 2)

When you've completed the easy version, you're ready to tackle the hard version.

In the advanced version of this project the final password does not follow a pattern.

So the example above might look like this:

x\$d24g\*f9

And every time you generate a password, the positions of the symbols, numbers, and letters are different.