PASSWORD GENERATOR:

This project helps in selecting random values for creation of a password and same is the purpose with OTP GENERATOR.

There are basically two types of password generators :

* Random password which is readable but is not strong.
* Readable password Generator

In this mini project , you learn about how to deal with loops , files and the random module.

There are three important functions under random module which are useful whenever we want to select something random or we have to deal with something random:

* random.random():returns a floating point number between 0 to 1.
* random.randint(): to select a number from a given range really useful while creating an OTP.
* random.choice():really useful when you have to deal with automation.

**PYTHON PASSWORD GENERATOR:**

**SECTION 1 : BUILDING A RANDOM PASSWORD:**

**We come across the constraints of the password as :**

* **8 CHARACTER LENGTH**
* **ATLEAST 1 UPPERCASE**
* **ATLEAST 1 LOWERCASE**
* **ATLEAST 1 DIGIT**
* **ATLEAST 1 SPECIAL CHARACTER**
* **ATLEAST 1 SPECIAL SYMBOL**

**So, basically to follow the above criteria of password or OTP GENERATION:**

**We can create a list of all uppercase, all lowercase, all digits, etc and then use of choice() function to select a random value from the list.**