

Mini project:

*****Password Generator*****

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Title of Project:

Python Password Generator

Introduction:

Creating a random password generator in Python using to keep our account safe and prevent your password from being hacked you have to make your password hard enough that nobody can guess.

A password generator is a software application device that creates arbitrary or tailored passwords for individuals. It assists individuals to produce more powerful passwords that offer greater protection for a provided sort of access.

Some password generators are merely random password generators. These programs produce complex/strong passwords with mixes of numbers, uppercase and also lowercase letters, and also unique personalities such as dental braces, asterisks, slashes, and so on.

Objective:

Making a mini project on python that is Password Generator to keep our account safe and prevent your password from being hacked you have to make your password hard enough that nobody can guess.

We know that passwords are a real security threat. To keep your account safe and prevent your password from being hacked you have to make your password hard enough that nobody can guess.

Feature of my Project:

To keep your account safe and prevent your password from being hacked you have to make your password hard enough that nobody can guess. The password generator project will be build using python modules like Tkinter, random, string, pyperclip.

Project File Structure:

Let's check the step to make a Password using password generator.

- Select Password Length
- Hit Enter

Problems Description:

There is no any error or problem in my project my given code is working properly as a want.

Tools and Technology:

It is a tool that generates passwords based on the given guidelines that you set to create an unpredictable strong password for your accounts.

The Password generator tool creates a random and customized password for users that helps them to create a strong password which provides greater security.

To build this project I use the basic concept of python Modulesz and libraries like random, string.

Random Module:

Random module is used to perform the random generations. We are making use of `random.sample` module here. If you will observe in the output all characters will be unique. `random.sample()` never repeats characters. If you don't want to repeat characters or digits in the random string, then use `random.sample()` but it is less secure because it will reduce the probability of combinations because we are not allowing repetitive letters and digits.

String Module:

The string module contains a number of useful constants, classes and a number of functions to process the standard python string.

1. `string.ascii_letters`: Concatenation of the ascii (upper and lowercase) letters
2. `string.ascii_lowercase`: All lower case letters
3. `string.ascii_uppercase`: All Upper case letters
4. `string.digits`: The string '0123456789'.
5. `string.punctuation`: String of ASCII characters which are considered punctuation characters in the C locale.

Vs code:

I use this ID to run the code.

Result:

Input:

```
C: > Users > Dell > Desktop > PGP mini project.py > ...
1  import string
2
3  if __name__=="__main__":
4      s1 = string.ascii_letters
5      print(s1) #import string
6  import random
7
8  if __name__ == "__main__":
9      s1 = string.ascii_lowercase
10     # print(s1)
11     s2 = string.ascii_uppercase
12     # print(s2)
13     s3 = string.digits
14     # print(s3)
15     s4 = string.punctuation
16     # print(s4)
17     plen = int(input("Enter password length: ")) #Todo1: Handle Gibberish
18     s = []
19     s.extend(list(s1))
20     s.extend(list(s2))
21     s.extend(list(s3))
22     s.extend(list(s4))
23     # print(s)
24     # random.shuffle(s)
25     # print(s)
26     print("Your password is: ")
27     print("".join(random.sample(s, plen)))
28     # print("".join(s[0:plen]))
```

Output:

```
PS C:\Users\Dell> & C:/Use
Enter your id: 5353470861
Enter your name: mushii
Enter your salary: 99999

employee id: 5353470861
employee name: mushii
employee salary: 99999
```

Conclusion:

My password generator is a software application device that creates arbitrary or tailored passwords for individuals. It assists individuals to produce more powerful passwords that offer greater protection for a provided sort of access. Some password generators are merely random password generators. These programs produce complex/strong passwords with mixes of numbers, uppercase and also lowercase letters, and also unique personalities such as dental braces, asterisks, slashes, and so on.

Reference:

This GUI based Password Generator supplies the most basic method for generating a solid password for the individuals.

- I have made my this project with the help of YouTube channel“ CODE with Harry” and the links are given below you can Check,

- ▶ Code + Notes: <https://codewithharry.com/videos/pyth...>

- ▶ Find more such Python application videos in this playlist here: <https://www.youtube.com/playlist?list...>

- ▶ Click here to subscribe -

- <https://www.youtube.com/channel/UCeVM...> ▶ Checkout my English channel here:

- <https://www.youtube.com/ProgrammingWi...>