



PRESENTATION ON PASSWORD GENERATOR

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About the Program

Creating a password generator in Python is a useful project to enhance your programming skills and improve your understanding of random number generation and string manipulation. A password generator is a tool that generates secure and random passwords, which are crucial for maintaining the security of various online accounts and systems



Forms of Protection

Passwords

Two-factor Authentication

- i.e. a password and image

Biometrics

- Fingerprints, eye scans, etc.

Tokens

- A piece of technology that only you can use to login somewhere.



Why Passwords

Passwords are here to stay

Why!?

- Passwords are easy to remember.
- Are used for almost everything.
- Are still wonderful if created and protected well.



Good Password Tips

You should never:

- Reuse a password for multiple logins.
- Make a password using your personal information like your name, birthday, pets name, etc.
- Make a password that is commonly used such as, abc123! Or P@55w0rd, etc.
- If allowed, passwords should:
 - Be 10-14 characters long
 - Have lower and upper case letters, numbers and symbols.
 - Be something unique to you that you will remember.



Hacking Passwords

- Password protection is very important.
- Hackers have tools now to find a password almost immediately.
 - Tools today can figure out simple passwords in under 0.23 milliseconds!
- Tool:





Programming with Python

- Random
 - This library allows us to generate a random set of characters.
 - **Example Code:** import random
- print
 - This function lets us print out what our program created.
 - **Example Code:** print p
- Step One:
 - Open the following link:
 - <https://repl.it/languages/python3>
- Step Two:
 - Let's make sure we include our library.
 - In order to use the random library, let's type the following in our compiler:

```
import random
```




Python Password Generator Code

```
'''  
Password Generator  
-----  
'''  
  
import secrets  
import string  
  
def create_pw(pw_length=12):  
    letters = string.ascii_letters  
    digits = string.digits  
    special_chars = string.punctuation  
  
    alphabet = letters + digits + special_chars  
    pwd = ''  
    pw_strong = False
```



```
while not pw_strong:
    pwd = ""
    for i in range(pw_length):
        pwd += "".join(secrets.choice(alphabet))

    if (any(char in special_chars for char in pwd) and
        sum(char in digits for char in pwd) >= 2):
        pw_strong = True

return pwd

if __name__ == '__main__':
    print(create_pw())
```



OutPut

```
if __name__ == '__main__':  
    print(create_pw())
```

```
1M9wI;`k!pn@
```

In []:



THANK
YOU