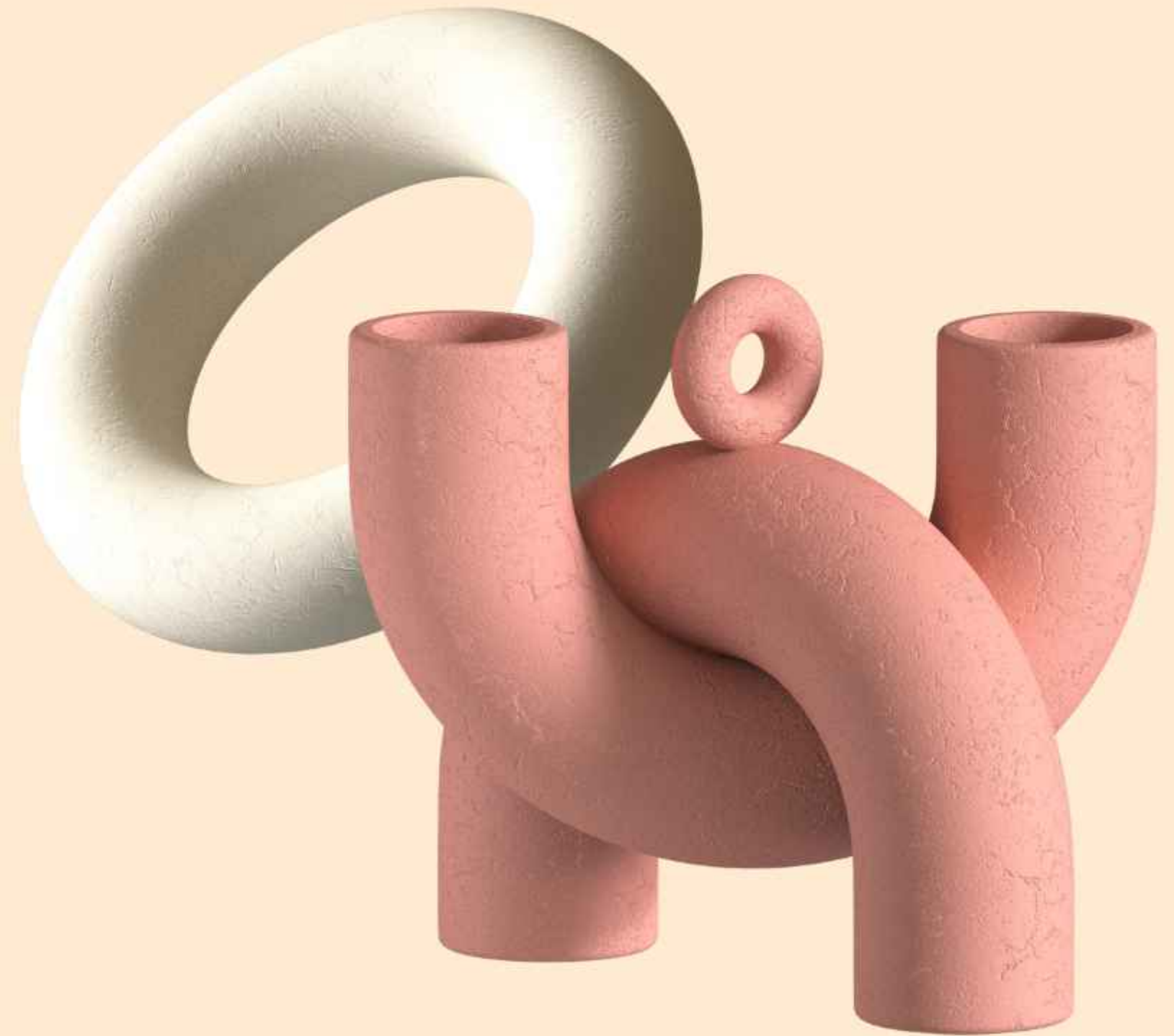


Basic password generator in Python

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Introduction:

- Passwords play a critical role in securing sensitive information.
- Secure Passwords protect against unauthorized access.
- They enhance overall security, especially in communication networks.



Why is password important in networking?

Strong passwords can help defend against cyberattacks and lower the risk of a security breach.

They typically are long—at least 12 characters—and include uppercase letters, lowercase letters, numbers, and special characters. Strong passwords should not have any personal information.

Project Overview:

Significance of Password Generators:

- Create complex and random passwords.
- Reduce the risk of password-related vulnerabilities.

Project Goals:

- Develop a practical and accessible password generator using Python.
- Provide a tool for users to generate secure passwords easily.



Generating Random Passwords

Step-by-step process to generate random passwords:

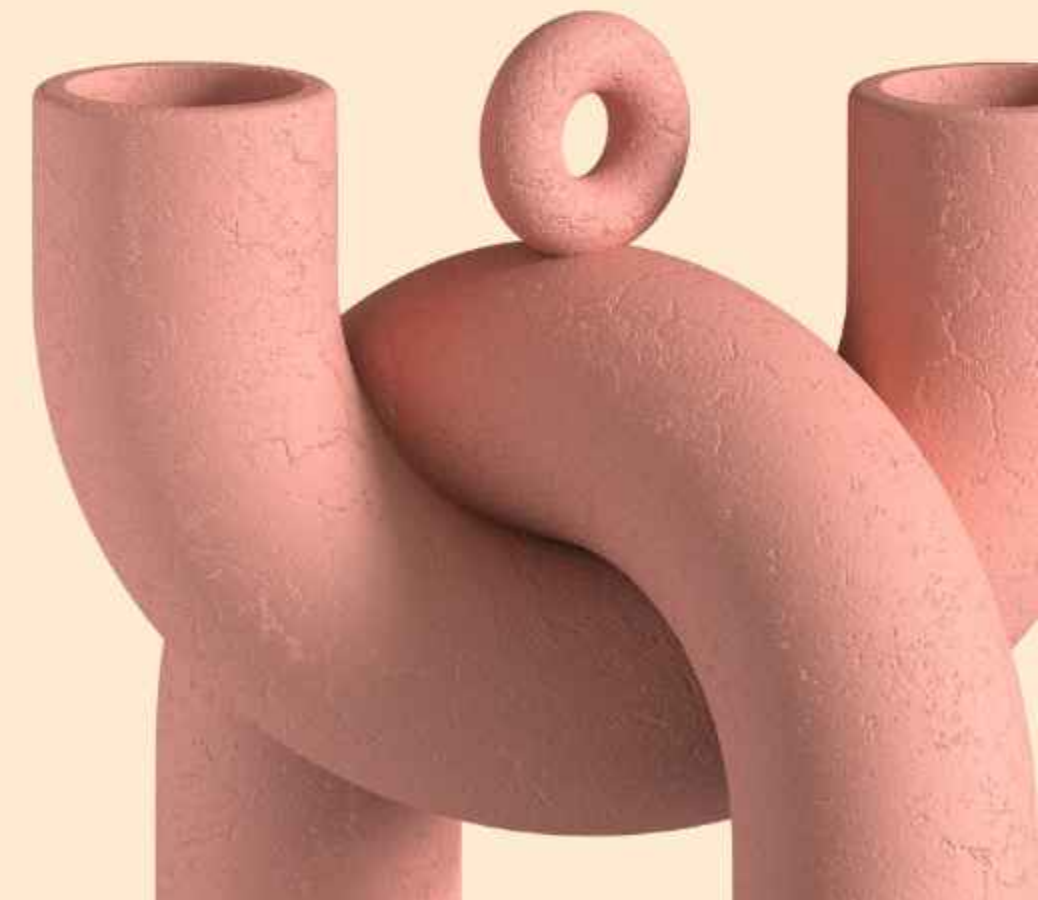
- Import the 'random' module.
- Define a function to generate a random password.
- Specify the length of the password.
- Create a string of all possible characters that can be used in the password.
- Use the 'random.choice()' function to randomly select characters from the string.
- Repeat the previous step for the specified length of the password. Return the generated password.

CODE:

```
import random  
import string
```

```
def generate_password(length=8):  
    characters = string.ascii_letters + string.digits + string.punctuation  
    password = ''.join(random.choice(characters) for _ in range(length))  
    return password
```

```
if __name__ == "__main__":  
    password = generate_password()  
    print("Generated Password:", password)
```




```
import random
import string

def generate_password(length=8):
    characters = string.ascii_letters + string.digits + string.punctuation
    password = ''.join(random.choice(characters) for _ in range(length))
    return password

if __name__ == "__main__":
    password = generate_password()
    print("Generated Password:", password)
```

Generated Password: Spm/AS~x

```
import random
import string

def generate_password(length=8):
    characters = string.ascii_letters + string.digits + string.punctuation
    password = ''.join(random.choice(characters) for _ in range(length))
    return password

if __name__ == "__main__":
    password = generate_password()
    print("Generated Password:", password)
```

Generated Password: =obF26Y4

THANKYOU!!!

