import random

import string

def generate\_password(length, include\_uppercase, include\_lowercase, include\_numbers, include\_special\_chars):

characters = ''

if include\_uppercase:

characters += string.ascii\_uppercase

if include\_lowercase:

characters += string.ascii\_lowercase

if include\_numbers:

characters += string.digits

if include\_special\_chars:

characters += string.punctuation

if not characters:

print("Please include at least one character type.")

return None

password = ''.join(random.choice(characters) for \_ in range(length))

return password

# Example usage

length = int(input("Enter the length of the password: "))

include\_uppercase = input("Include uppercase letters? (yes/no):").lower() == 'yes'

include\_lowercase = input("Include lowercase letters? (yes/no): ").lower() == 'yes'

include\_numbers = input("Include numbers? (yes/no): ").lower() == 'yes'

include\_special\_chars = input("Include special characters? (yes/no): ").lower() == 'yes'

password = generate\_password(length, include\_uppercase, include\_lowercase, include\_numbers, include\_special\_chars)

if password:

print(f"Generated Password: {password}")