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#Password_Generator

import random
random = random.Random()

# Length of password
password_length = input("Enter preferred length:")

# Lists
lower =
['a','b','c','d','e','f','g','h','i','j','k','l','m','n','o','p','q','r','s',
't','u','v','w','x','y','z']
upper =
['A','B','C','D','E','F','G','H','I','J','K','L','M','N','O','P','Q','R','S',
'T','U','V','W','X','Y','Z']
numbers = ['1','2','3','4','5','6','7','8','9','0']
special = ['!', '@', '#', '$', '%', '^', '&', '*', '(', ')', '_', '-', '+', '=']

# Function
all_characters = lower + upper + numbers + special

def generator(length=password_length):
    if int(length) < 8:
        return "The password is too short"
    elif int(length) > 32:
        return "The password is too long"
    else:
        password = ''.join(random.choice(all_characters) for _ in range
(int(length)))
        return password

# Print the password
print("Generated Password:", generator())
```