TASK 3

import random

import string

def generate\_password(length, use\_uppercase, use\_digits, use\_symbols):

characters = string.ascii\_lowercase

if use\_uppercase:

characters += string.ascii\_uppercase

if use\_digits:

characters += string.digits

if use\_symbols:

characters += string.punctuation

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

return password

def main():

print("Welcome to the Password Generator!")

while True:

try:

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

break

except ValueError:

print("Please enter a valid number.")

use\_uppercase = input("Include uppercase letters? (y/n): ").strip().lower() == 'y'

use\_digits = input("Include digits? (y/n): ").strip().lower() == 'y'

use\_symbols = input("Include symbols? (y/n): ").strip().lower() == 'y'

password = generate\_password(length, use\_uppercase, use\_digits, use\_symbols)

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

if \_\_name\_\_ == "\_\_main\_\_":

main()