CODE STURCTURE FOR PASSWORD GENERATOR USING PYTHON

import string

import random

def generate\_password(length, use\_letters=True, use\_digits=True, use\_punctuation=True):

characters = ''

if use\_letters:

characters += string.ascii\_letters

if use\_digits:

characters += string.digits

if use\_punctuation:

characters += string.punctuation

if len(characters) == 0:

raise ValueError("At least one character type should be selected.")

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

return password

def get\_user\_preferences():

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

use\_letters = input("Include letters? (yes/no): ").lower() == 'yes'

use\_digits = input("Include digits? (yes/no): ").lower() == 'yes'

use\_punctuation = input("Include punctuation? (yes/no): ").lower() == 'yes'

return length, use\_letters, use\_digits, use\_punctuation

def main():

try:

length, use\_letters, use\_digits, use\_punctuation = get\_user\_preferences()

password = generate\_password(length, use\_letters, use\_digits, use\_punctuation)

print("Generated Password:", password)

except ValueError as e:

print("Error:", e)

print("Please ensure at least one character type is selected.")

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

main()