**2.NUMBER GUESS GAME:**

SOURCE CODE:

import random

def guessing\_game():

print("Welcome to the Guessing Game!")

print("I have chosen a number between 1 and 100. Try to guess it!")

# Generate a random number between 1 and 100

secret\_number = random.randint(1, 100)

attempts = 0

while True:

guess = input("Enter your guess (or 'exit' to quit): ")

# Check if the user wants to exit the game

if guess.lower() == 'exit':

print("Exiting game...")

break

# Check if the input is a valid number

if not guess.isdigit():

print("Please enter a valid number.")

continue

guess = int(guess)

# Increment the number of attempts

attempts += 1

# Provide hints to the user

if guess < secret\_number:

print("Too low! Try a higher number.")

elif guess > secret\_number:

print("Too high! Try a lower number.")

else:

print("Congratulations! You've guessed the number {} in {} attempts!".format(secret\_number, attempts))

break

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

guessing\_game()