NUMBER GUESSING GAME

What is it?

A number guessing game aims to guess the number that the program has come up with.

How it works?

1. The program randomly selects a number between 1 and 100 _(it can be changed between any numbers)_

2. It will ask the player to enter his number _(between the number specified in program)_

3. Then it will check if the player entered number is same as the number generated randomly by the computer

4. If both the numbers are same then the player wins

5. If the players guess is not the same, then he will check the players number is higher or lower than the number guessed by computer and tell the player

6. After certain attempts when the numbers got matched then it tell the player how many attempts he took to guess the number

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Source Code:

```python
import random

def guess_number():
    secret_number = random.randint(1, 100)
    attempts = 0

    while True:
        guess = int(input("Guess a number between 1 and 100: "))
        attempts += 1

        if guess < secret_number:
            print("Too low! Try again.")
        elif guess > secret_number:
            print("Too high! Try again.")
        else:
            print(f"Congratulations! You guessed the number in {attempts} attempts.")
            break

guess_number()
```

Output:

Guess a number between 1 and 100: 45

Too low! Try again.

Guess a number between 1 and 100: 75

Too high! Try again.

Guess a number between 1 and 100: 55

Too low! Try again.

Guess a number between 1 and 100: 65

Too low! Try again.

Guess a number between 1 and 100: 73

Too high! Try again.

Guess a number between 1 and 100: 71

Congratulations! You guessed the number in 6 attempts.