

Make Guess Game in Python

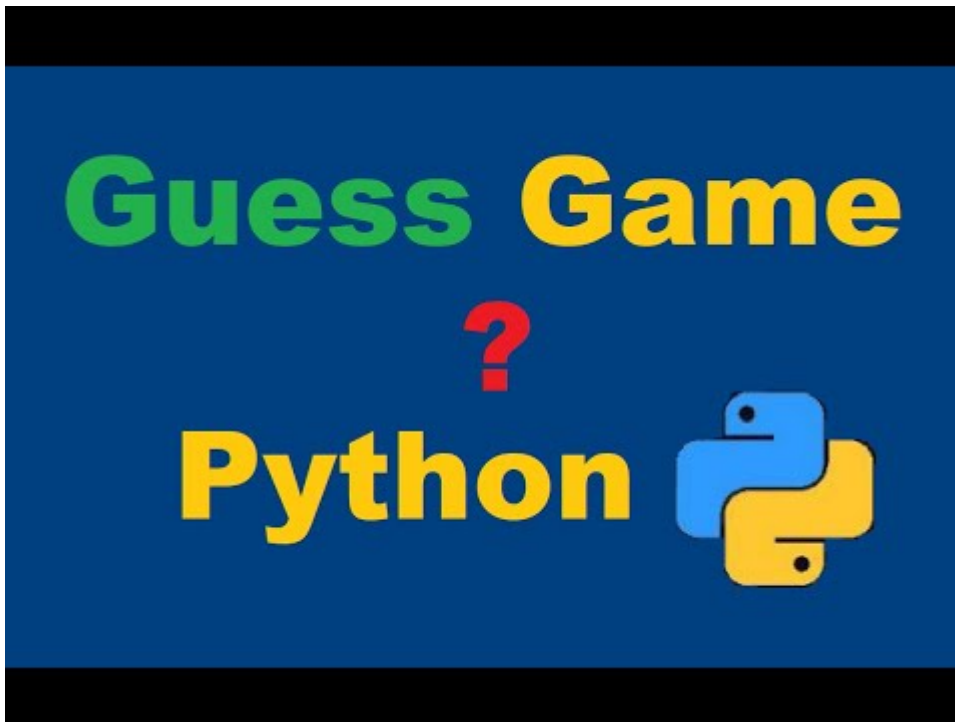
 webdamn.com/make-guess-game-in-python

webdamn

November 20, 2022

In our previous Python tutorial, we have explained to make a [Dice Rolling Simulator in Python](#). In this tutorial, we will Make Guess Game in Python.

Python is a popular language among developers as it's a first choice of beginners to learn and do amazing things. Here in this tutorial, we will code a project for beginners. We will make a Guess Game using `random` and `math` module from python.



Watch Video At: <https://youtu.be/KI2gIUxhnK0>

So let's code our game:

Implement Guess Game

First we will import Python module `random` and `math` to use in our guest game.

```
import random
import math
```

We will get user input number as lower bound and upper bound to get number between using `random.randint()` function.

```
lowerBound = int(input("\nEnter Lower bound number:"))
upperBound = int(input("\nEnter Upper bound number:"))

numberBetween = random.randint(lowerBound, upperBound)
```

We will take guess number as user input and loop through to check if guess number is matched or it is high or low and display message.

```
guessCounter = 0
while guessCounter < math.log(upperBound - lowerBound + 1, 2):
    guessCounter += 1
    guessNumber = int(input("\nGuess a number:- "))
    if numberBetween == guessNumber:
        print("\nCongratulations you did it in ",
              guessCounter, " try")
        break
    elif numberBetween > guessNumber:
        print("\nYou guessed too small!")
    elif numberBetween < guessNumber:
        print("\nYou guessed too high!")
```

Finally, we will check if guess counter greater than and display the message with number.

```
if guessCounter >= math.log(upperBound - lowerBound + 1, 2):
    print ("\nThe number is %d" % numberBetween)
    print("\nHave better luck next time!")
```

Complete Code

Here is complete code of our Guess Game in Python.

```

import random
import math

lowerBound = int(input("\nEnter Lower bound number:"))
upperBound = int(input("\nEnter Upper bound number:"))

numberBetween = random.randint(lowerBound, upperBound)

print ("\n\tYou've only ",
        round(math.log(upperBound - lowerBound + 1, 2)),
        " chances to guess the integer!\n")

guessCounter = 0
while guessCounter < math.log(upperBound - lowerBound + 1, 2):
    guessCounter += 1
    guessNumber = int(input("\nGuess a number:- "))
    if numberBetween == guessNumber:
        print("\nCongratulations you did it in ",
              guessCounter, " try")
        break
    elif numberBetween > guessNumber:
        print("\nYou guessed too small!")
    elif numberBetween < guessNumber:
        print("\nYou guessed too high!")
if guessCounter >= math.log(upperBound - lowerBound + 1, 2):
    print ("\nThe number is %d" % numberBetween)
    print("\nHave better luck next time!")

```

Output:

Enter Lower bound number:4

Enter Upper bound number:8

 You've only 2 chances to guess the integer!

Guess a number:- 5

You guessed too small!

Guess a number:- 6

You guessed too small!

Guess a number:- 7

Congratulations you did it in 3 try

The number is 7

Have better luck next time!