**Number guessing game in Python**

**Task:** *Below are the steps:*

* Build a Number guessing game, in which the **user selects a range.**
* Let’s say User selected a range, i.e., from**A**to **B**, where **A** and **B**belong to Integer.
* Some **random integer will be selected by the system** and the user has to guess that integer in the **minimum number of guesses**

### ****Algorithm****: Below are the Steps:

* User inputs the **lower bound** and **upper bound** of the range.
* The compiler generates a random integer between the range and store it in a variable for future references.
* For repetitive guessing, a while loop will be initialized.
* If the user guessed a number which is greater than a randomly selected number, the user gets an output “*Try Again! You guessed too high*“
* Else If the user guessed a number which is smaller than a randomly selected number, the user gets an output “*Try Again! You guessed too small”*
* And if the user guessed in a minimum number of guesses, the user gets a “*Congratulations!* ” Output.
* Else if the user didn’t guess the integer in the minimum number of guesses, he/she will get “*Better Luck Next Time!*” output.

import random

lower=int(input("enter the lower range:"))

upper=int(input("enter the upper range:"))

randm=random.randint(lower,upper)

count=0

max\_try=10

print("you have total attempts:",max\_try)

while count<max\_try:

    userchoice=(input("enter the number or quit:"))

    if(userchoice=="quit"):

        break

    userchoice=int(userchoice)

    if(userchoice==randm):

        print("success")

        count+=1

        break

    elif(userchoice < randm):

        print("your number is smaller,try again")

    else:

        print("your number is bigger,try again")

    count+=1

print("number of guess:",count)

print("---Game over---")

$ C:/Users/Hp/AppData/Local/Programs/Python/Python312/python.exe "c:/Users/Hp/Desktop/data science/python/python code/GuesstheNumber.py"

enter the lower range:1

enter the upper range:50

you have total attempts: 10

enter the number or quit:25

your number is smaller,try again

enter the number or quit:30

your number is smaller,try again

enter the number or quit:40

success

number of guess: 3

---Game over---