```
import random
import math
# Taking Inputs
lower = int(input("Enter Lower bound:- "))
# Taking Inputs
upper = int(input("Enter Upper bound:- "))
# generating random number between
# the lower and upper
x = random.randint(lower, upper)
print("\n\tYou've only ",
 round(math.log(upper - lower + 1, 2)),
  " chances to guess the integer!\n")
# Initializing the number of guesses.
count = 0
# for calculation of minimum number of
# guesses depends upon range
while count < math.log(upper - lower + 1, 2):</pre>
 count += 1
  # taking guessing number as input
  guess = int(input("Guess a number:- "))
  # Condition testing
  if x == guess:
   print("Congratulations you did it in ",
     count, " try")
    # Once guessed, loop will break
   break
  elif x > guess:
   print("You guessed too small!")
  elif x < guess:</pre>
   print("You Guessed too high!")
# If Guessing is more than required guesses,
# shows this output.
if count >= math.log(upper - lower + 1, 2):
  print("\nThe number is %d" % x)
  print("\tBetter Luck Next time!")
```

Better to use This source Code on pycharm!

```
Enter Lower bound:- 10
Enter Upper bound:- 99

You've only 6 chances to guess the integer!

Guess a number:- 75
You guessed too small!
Guess a number:- 84
You guessed too small!
Guess a number:- 89
You guessed too small!
Guess a number:- 94
You guessed too small!
Guess a number:- 98
You Guessed too high!
Guess a number:- 96
Congratulations you did it in 6 try
```