PYTHON

MINI

PROJECT

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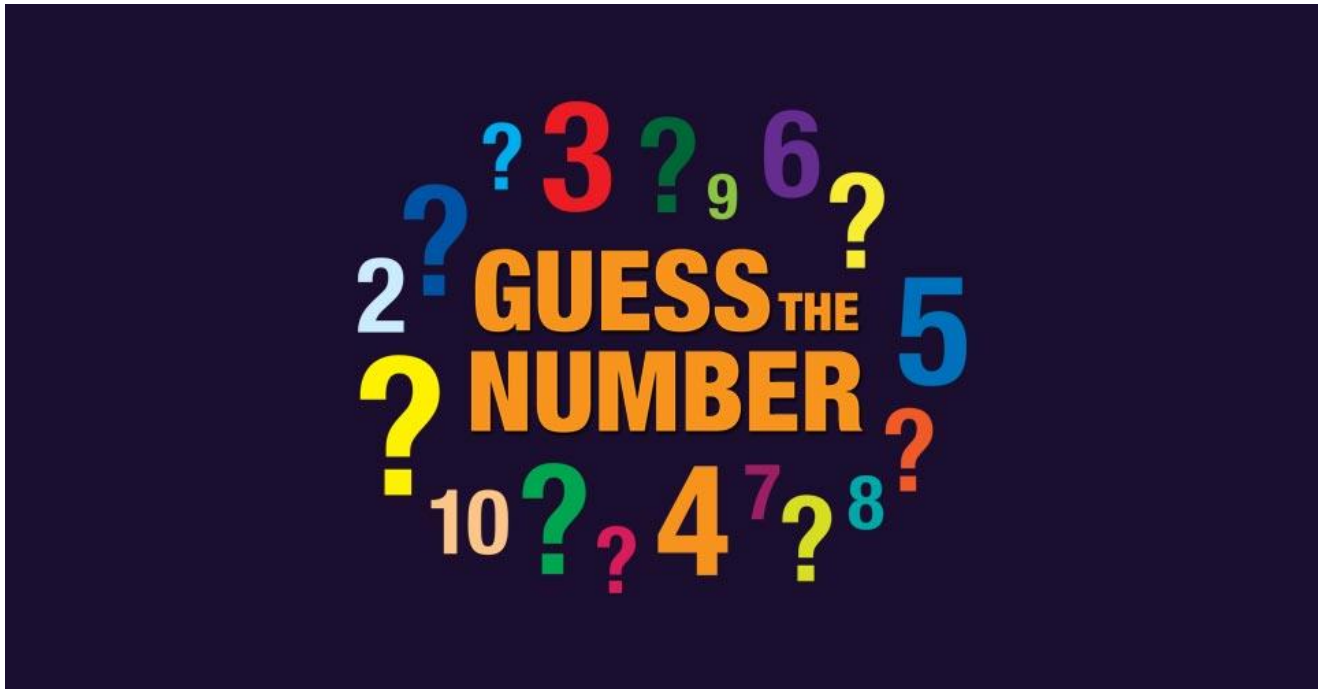BRANCH : CSE

PROJECT

PROJECT NAME=NUMBER GUESSING GAME

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NUMBER GUESSING GAME

SOURCE- CODE....

```python
import random


print("Mini Project of Python ")
print("Number guessing game")

# randint function to generate the
# random number b/w 1 to 9
number = random.randint(1, 9)

# number of chances to be given
# to the user to guess the number
# or it is the inputs given by user
# into input box here number of
# chances are 5
chances = 0

print("Guess a number (between 1 and 9):")

# While loop to count the number
# of chances
while True:

    # Enter a number between 1 to 9
    guess = int(input())

    # Compare the user entered number
    # with the number to be guessed
    if guess == number:

        # if number entered by user
        # is same as the generated
        # number by randint function then
        # break from loop using loop
        # control statement "break"
        print(
            f'CONGRATULATIONS! YOU HAVE GUESSED THE \
            NUMBER {number} IN {chances} ATTEMPTS!')
        # Printing final statement using the f-strings method;
        break
```

```python
# Check if the user entered
# number is smaller than
# the generated number
elif guess < number:
    print("Your guess was too low: Guess a number higher than", guess)

# The user entered number is
# greater than the generated
# number
else:
    print("Your guess was too high: Guess a number lower than", guess)

# Increase the value of chance by 1
chances += 1
```

OUTPUT-1

Mini Project of Python
    Number guessing game
    Guess a number (between 1 and9):
    3
Your guess was too low: Guess a
number higher than 3
    5
    Your guess was too low: Guess a
number higher than 5
    8
    Your guess was too high: Guess a
number lower than 8
    8
    Your guess was too high: Guess a
number lower than 8
    7
    CONGRATULATIONS! YOU HAVE
GUESSED THE NUMBER 7 IN 5 ATTEMPTS!
** Process exited - Return Code: 0 **
Press Enter to exit terminal

OUTPUT -2

Mini Project of Python
Number guessing game
Guess a number (between 1 and 9):
5
Your guess was too high: Guess a number
lower than 5
2
Your guess was too low: Guess a number
higher than 2
4
Your guess was too high: Guess a number
lower than 4
3
CONGRATULATIONS! YOU HAVE GUESSED THE
NUMBER 3 IN 4 ATTEMPTS!

** Process exited - Return Code: 0 **
Press Enter to exit terminal

OUTPUT -3

```
    Mini Project of Python
   Number guessing game
   Guess a number (between 1 and 9):
   5
   Your guess was too high: Guess a number
lower than 5
   2
   Your guess was too low: Guess a number
higher than 2
    4
   Your guess was too high: Guess a number
lower than 4
   3
   CONGRATULATIONS! YOU HAVE GUESSED THE
NUMBER 3 IN 4 ATTEMPTS!


** Process exited - Return Code: 0 **
Press Enter to exit terminal
```

REFERNECES

1. Geeksforgeeks.org
2. Githhub.com