# NUMBER GUESSING GAME USING PYTHON

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## INTRODUCTION

A number guessing game is a simple yet engaging Python program that allows users to
guess a randomly generated number within a specified range. The program provides
feedback based on the user's guesses, guiding them toward the correct answer. This game
helps beginners understand fundamental programming concepts such as loops,
conditional statements, user input handling, and random number generation.

### **METHODOLOGY**

#### 1.Random Number Generation:

•The program utilizes Python's random module to generate a random number within a predefined range (e.g., I to 100).

#### 2.User Input Handling:

- •The player is prompted to enter their guess.
- •The input is validated to ensure it is a number within the specified range.

#### 3. Comparison Logic:

- •If the guessed number is lower than the target number, the program informs the user that the guess is too low.
- •If the guessed number is higher, the program indicates that it is too high.
- •If the guess is correct, the program congratulates the user and ends the game.

#### 4.Looping Mechanism:

- •The program runs in a loop, allowing the user to guess multiple times until they find the correct number.
- •The number of attempts may be tracked and displayed at the end.

#### 5.Optional Enhancements:

- •Limiting the number of attempts to increase difficulty.
- •Implementing different difficulty levels with varying number ranges.
- Adding a restart option to play again.

## **PYTHON CODE**

#imporying a random number import random print("You are welcome in Guessing game")

#user guessing the number print("I am guessing a number can you guess it") secret\_number = random.randint(1, 100)

attempt=0 guess\_correctly=False initial\_point=100 if secret\_number%2==0: yes=0 if secret\_number%2!=0: yes=1

## **SCREENSHORT OF OUTPUT**

You are welcome in Guessing game
I am guessing a number can you guess it
do you need any help: yes
The secret number is odd.
Enter your guess: 36
Too high! Try again.
Enter your guess: 26
Too high! Try again.
Enter your guess: 24
Too high! Try again.
Enter your guess: 12
Too high! Try again.
Enter your guess: 6
Too high! Try again.
Enter your guess: 4
Too low! Try again.
Enter your guess: 3
Too low! Try again.
Enter your guess: 3
Too low! Try again.
Enter your guess: 5
Congratulations! You've guessed the number in 8 attempts
You got 30 points