

# <<GUESS THE NUMBER>>

## 21CSS101J – PROGRAMMING FOR PROBLEM SOLVING

### Mini Project Report

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# **Problem Statement**

To write a program, take input from the user to guess the number.

# **Methodology**

## **Tasks to run:**

1. Ask the user to enter their name.
2. Using random function, it will assign any number between 1 and 20, user have to guess that number.
3. Using while loop in python user gets 5 chances to guess the number.
4. In nested loop if the user guess wrong number, hint is given whether the number is greater or smaller then the input given by user, also number of chances left is printed.
5. If user guesses the number right then user will win and number of guesses took to guess the number will be printed.
6. The program will repeat 5 times.

# CODING

```
main.py ⌂ 🔍 Run

1 import random
2 number = random.randint(1, 20)
3
4 player_name = input("Hello, What's your name: ")
5 print("Hello",player_name)
6 number_of_guesses = 0
7 print("Okay!",player_name,"Computer will guess a number between 1 and 10")
8 print("Now its your turn to guess that the number in 5 tries.")
9
10 while number_of_guesses < 5:
11     guess = int(input("Guess the number :\n"))
12     number_of_guesses += 1
13     if guess < number:
14         print("You entered smaller number please input greater number.\n")
15     if guess > number:
16         print("You entered greater number please input smaller number.\n")
17     if guess == number:
18         break
19     print(5-number_of_guesses,"Number of guesses left\n")
20 if guess == number:
21     print("Congratulations! You guessed the number in " + str(number_of_guesses)
22         + " tries!")
23 else:
24     print("Oops! You did not guess the number, The number was " + str(number))
25 if(number_of_guesses>=5):
26     print("Game Over")
```

# RESULT

Shell

Clear

```
Hello, What's your name: Aman Singh
Hello Aman Singh
Okay! Aman Singh Computer will guess a number between 1 and 10
Now its your turn to guess that the number in 5 tries.
Guess the number :
10
You entered smaller number please input greater number.

4 Number of guesses left

Guess the number :
15
You entered smaller number please input greater number.
3 Number of guesses left

Guess the number :
18
You entered greater number please input smaller number.

2 Number of guesses left

Guess the number :
17
Congratulations! You guessed the number in 4 tries!
>
```

# **CONCLUSION**

We have built a game to guess the number using the Python programming language. It has been developed using the python programming language. Any purpose driven decision maker can have intelligence as a trait. An algorithm has been presented in the system and tested, and it has proven to be effective. Chiefly, the system is free of errors.

# **THANK YOU**