

## Registration form for Learning Project-I

Roll No	Name of the Student
22CSE087	AYUSHMAN SAHU
22CSE096	KENGUVA VINEESHA
22CSE101	MOHAMMAD JAFFAR HUSSAIN

### Proposed Project Title:

**Guess the Number:** Write a game where the computer generates a random number, and the player must guess it.

### Abstract:

This game is based on numbers where we have to guess a perfect number to win this particular game.

Here, the user selects a range of number to make a win.

Let the user take a range from A to B, in which A and B belong to an integer.

Now some random integer will be selected by the program and the user has to guess that integer in the number of guess.

If the user guess the number then it is a win for him/her, if not then the game will be stopped after a certain number of guesses.

If the User inputs range, let's say from 1 to 100.

And compiler randomly selected 45 as the integer.

And now the guessing game started, so the user

entered 50 as his/her first guess. The compiler shows

"Try Again! You guessed too high". That's mean the random number (i.e., 45) doesn't fall in the range from 50 to 100.

That's the importance of guessing half of the range. And again,

the user guesses half of 50 (Could you tell me why?). So the half of 50 is 25. The user enters 25 as his/her second guess.

This time compiler will show, "Try Again! You guessed too small".

That's mean the integers less than 25 (from 1 to 25) are useless to be guessed. Now the range for user guessing is shorter, i.e., from 25 to 50. Intelligently! The user guessed half of this range, so that,

user guessed 37 as his/her third guess. This time again the compiler shows the output, "Try Again!

You guessed too small". For the user,

the guessing range is getting smaller by each guess. Now, the guessing range for user is from 37 to 50, for which the user guessed 45 as his/her

fourth guess. This time the compiler will show an output "

And finally, the User

Guessed the right number which is 45 as his/her seventh guess.

Total Number of Guesses = 7

Basically this the motive and abstract of the game we have made for our project.

### Official Use

Group No: