# allen_guessTheNumber

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```python
[1]: # Guess the Number
     # Rainah Allen

     from random import randint
     from IPython.display import clear_output

     allWins = 0 # Total amount of wins in the end

     def main(): # main function / where you guess the number

         global allWins # make total wins global

         numberToGuess = randint(0,1000) # random number you will guess

         for guesses in range(0,10): # gives 10 guesses

             print("attempt # {}".format(guesses+1)) # tells you which attempt
     ↪you're on / counts guesses

             guessedNumber = int(input("Enter your guess:")) # enter your guess

             if guesses == 9 and guessedNumber != numberToGuess: # if you lose / run
     ↪out of guesses
                 clear_output()
                 print("Sorry, the number was {}".format(numberToGuess))
                 exit()
                 break

             if guessedNumber == numberToGuess: # if you correctly guess the number
     ↪in time
                 clear_output()
                 print("You won! You guessed {}".format(numberToGuess))
                 allWins += 1
                 exit()
                 break
```

```python
        elif guessedNumber < numberToGuess: # if you  guess a number lower than
 ↪the correct number
            print("The Number is larger than your guess.")
            print()

        elif guessedNumber > numberToGuess: # if you guess a number higher than
 ↪the correct number
            print("The Number is lower than your guess.")
            print()

def exit(): # after you win or lose you are asked if you want to exit

    exitAnswer = input('Do you want to play again? Enter Yes  No. ')

    if exitAnswer == "yes" or exitAnswer == "Yes": # if you dont want to exit
        clear_output()
        main()

    elif exitAnswer == "No" or exitAnswer == "no": # if you want to exit
        print("Goodbye!")
        print("Total Wins: {}".format(allWins))


print("                                    Welcome to Guess the Number!") #
 ↪basic game information
print()
print("You must guess a random number between 1 - 1000.")
print("You have 10 attempts to guess the number.")
input("Goodluck! (press enter to begin)") # enter runs the main function
clear_output() # clear basic information
main() # guess number
```

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You won! You guessed 575
Do you want to play again? Enter Yes  No. no
Goodbye!
Total Wins: 3
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