**Assignment1**

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1.

**a. Check whether a number input by the user is even or odd**

**Program:**

num=int(input(**'Enter the number:'**)) *#Taking input from the user*reminder = num%2 *#Getting the reminder***if** reminder==0:  
 print(**'Entered number is an Even number.'**)  
**else** :  
 print(**'Entered number is an Odd number.'**)

**b. Take length and breadth of a rectangle from user and print perimeter of the same.**

*#Taking dimensions of the rectangle from the user*l=int(input(**'Enter the length of the rectangle:'**))  
w=int(input(**'Enter the width of the rectangle:'**))  
*#Printng output*print(**'Perimeter of the rectangle with lenth'**,l,**'and width'**,w,**'is'** ,2\*(l+w))

**c. This is a number guess exercise. First pick a random digit via program i.e 0,1,2,3,4,5,6,7,8,9**

**import** random  
  
nums = range(1,100,1)  
rand = random.choice(nums) *#Randomly select number between 1 to 100*random =int(rand) *#converting string to integer*guess=int(input(**'Guess the random number:'**)) *#Taking input from the user***if** (random>guess): *#if condition to check which num is greater* print(**'Guessed number is greater than required'**)  
**elif** (random<guess):  
 print(**'Guessed number is lower than required'**)  
**else**:  
 print(**'Your guess is correct, Congratulations:-)'**)  
  
print(**'System guessed number is:'**,random) *#Printing the system random pic number*