**WEEK - 1**

**R-1.2** :

def is\_even(k):

num = str(k)

evenLst = ["0", "2", "4", "6", "8"]

if(num[-1] in evenLst):

print(k, " is even.")

else:

print(k, " is odd. ")

is\_even(2)

**R-1.4** :

def SOS(n):

res = 0

for i in range(1,n+1):

res += pow(i,2)

return res

**C-1.15** :

def distinct(arr):

if(len(arr) == len(set(arr))):

print(True)

else:

print(False)

**C-1.17** :

This wouldn't have worked. val is an alias to the actual element in data and assigning a new object to it will only change val's value.

**C-1.24** :

def COV(s)

num\_of\_vowels = 0

vow = ["a", "e", "i", "o", "u"]

for i in str:

if(i in vow):

num\_of\_vowels += 1

return num\_of\_vowels

**R-2.5** :

The charge given price to the card, assuming sufficient credit limit.

Return True if charge was processed, False if charge was denied

if self.\_charge\_count > 10:

self.\_balance += 1 #$1 surcharge for all calls after 10 charges

return True

**R-2.8** :

It was the credit card from California Savings.

**R-2.10** :

def \_\_setitem\_\_(self,j,val):

"""Set jth coordinate of vector to given value"""

self.\_coords[j] = val