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4/4/2022, 9:00.AM

MCA

SEM-I

OBJECT ORIENTED PROGRAMMING

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(5) —

Drs -

class Matn'x: It will represent the objects Matrix (mxn) 05)-count =0 def __init__ (self, now, col):

def __init__ (self, now, col):

Perform the initialization of matrix object Matrix.obj_count +=) golden how = you sodpended selfoncol = col. self. _ele=[] for i en range (row): a temp=[] for j in range (cal): temp-append (0) self-ele.append (temp)

(1)

By default we are creating zero:

@ property

def nRow (self):

return self.--nRow

@ nlow.se He r

def nlow(8elf) row):

if now < 0:

row = 0

self.--nlow = row

aproperty

def nCol (self):

return self.-nCol

QnCol. setter def nCol (selt; col): if col < 0: col = 0 self. -nCol = col dest set Value (self, nivis) Value):

if i L Self-n fow and j L Self-n Col:

self. __ele[1][j]= value

else: print (" Invalid Index")

def getValue(self, i, i):

if i<self.nPow and j<self.nCol;

neturn self.-ele[i][j]

else:
point ("Invalid Index")
return None

def __add__(self, other):

if type(other) == Matrin:

if self.nfow==other.nfow and self.

self.ncol ==other.ncol:

temp=[]

temp=[]

temp=[]

temp=[]

temp-append (self-nele[i][i])

temp-append (self-nele[i][i])

res-append (temp)

else:

brint l' Matrices are in compah'ble ")

def -- subb- (self, other):

if type (other) == Mation;

if self. n low = = other n low and

sef, ned == 0 Her-ned:

res=[]

for i in range (self. nbow);

temb = [7

for j'in sange (self-ncol);

temp. append (self-_elk[i]])

-other-elelizi

nes-append (temp)

return ges

else: print l'Matorices are incompabible)

def _mul_- (self, other);

if type (other) = = Matrin!

if self. mcol == other. nRow;

res=[]

(4)

for i m range (self. n fow)!

temp: T)

for i in range (self. ather. n how):

temp. append(o)

form k in range (other. n Row):

temp[i] += self.__ele[i][k] &

other.__ele[k][i]

res:-append (temp)

Setum ges

plac: print l' matrin are incompatible"

def __del_ (self);

Matrix. obj_count == 1

def -- str-- (self):

rus = " matrix Dis \n"

res + = str(self. -- ele)

return res