Program No:1

Date:24-11-2021

Aim: Program to perform all matrix operations using python (using numpy)

Program Code

import numpy as np

n\_num1=np.array([[10,5,20],[10,5,20]])

n\_num2=np.array([[10,5,20],[10,5,20]])

sum= np.add(n\_num1,n\_num2)

sqrt=np.sqrt(n\_num1)

s=np.sum(n\_num1, axis=1)

a = [[1, 2], [4, 1]]

b = [[4, 11], [2, 3]]

c=np.dot(a, b)

mul=np.multiply(a,b)

y=n\_num2.T

m=np.subtract(n\_num1,n\_num2)

d=np.divide(n\_num1,n\_num2)

print("output of add()",sum)

print("output of sqrt()",sqrt)

print("output of sum()",s)

print("output of dot()",c)

print("output of multyply()",mul)

print("output of T",y)

print("output of subtract()",m)

print("output of divide()",d)

Output







