A)

Create a class that represents a ‘DPVector’. This class hold two numbers x, y.

Implement a method to add two ‘DPVector’s using the ‘+’ operator.

For example:

a = DPVector(1,4)

b = DPVector(2,5)

print(a+b)

output:

This is calculated as followed (from the example): 1+4+2+5

* 17

B)

Implement a method to multiply two ‘DPVector’s using the ‘\*’ operator.

For example:

a = DPVector(1,4)

b = DPVector(2,5)

print(a\*b)

output:

This is calculated as followed: 1 X 5 + 2 X 4

* 13

C)

Create a new class ‘DPMatrix’ that is two-dimensional. DPMatrix is initiated from two DPVectors. Printing a DPMatrix would show a table of the matrix.

For example:

a = DPVector(1,4)

b = DPVector(2,5)

c= DPMatrix(a,b)

print(c)

output:

* [ [1, 4] , [2, 5] ]