

# Untitled

January 26, 2023

```
[1]: maize=[34,76,85]
     wheat=[43,45,65]
     beans=[76,553,84]
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[4]: w1,w2,w3=[0.8,0.4,0.3]
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[5]: weights=[w1,w2,w3]
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```
[8]: def prod_yield(crop,weights):
     result=0
     for x,w in zip(crop,weights):
         result += x*w
     return(result)
```

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[9]: d=prod_yield(maize,weights)
     print(d)
```

83.100000000000001

```
[10]: import numpy as np
      !pip install numpy
```

Requirement already satisfied: numpy in /opt/conda/lib/python3.9/site-packages (1.20.3)

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[15]: mai=np.array(maize)
```

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[17]: (mai*weights).sum()
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[17]: 83.100000000000001
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[18]: np.dot(maize,weights)
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[18]: 83.1
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[20]: g=list(range(10000,20000))
     h=list(range(10000))
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print(g)
print(h)
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9994, 9995, 9996, 9997, 9998, 9999]

```

```

[21]: data=np.array([[34,56,77],
                    [54,67,87],
                    [56,76,54],
                    [32,45,65]])

data

```

```

[21]: array([[34, 56, 77],
            [54, 67, 87],
            [56, 76, 54],
            [32, 45, 65]])

```

```
[25]: data.shape
```

```
[25]: (4, 3)
```

```
[27]: np.array(weights).shape
```

```
[27]: (3,)
```

```
[28]: data.dtype
```

```
[28]: dtype('int64')
```

```
[29]: np.matmul(data,weights)#matrix multiplication
```

```
[29]: array([72.7, 96.1, 91.4, 63.1])
```

```
[30]: data@weights#matrix multiplication
```

```
[30]: array([72.7, 96.1, 91.4, 63.1])
```

```
[31]: import urllib.request
```

```
[33]: urllib.request.urlretrieve(https://docs.google.com/spreadsheets/d/1xjpuc\_EtU2fpuTdC5vuwxic-vzw6yTz0wo\_jJ8oGZBA,work.txt)
```

```
File "/tmp/ipykernel_64/588654372.py", line 1
    urllib.request.urlretrieve(https://docs.google.com/spreadsheets/d/1xjpuc\_EtU2fpuTdC5vuwxic-vzw6yTz0wo\_jJ8oGZBA,work.txt)
    ~
SyntaxError: invalid syntax
```

```
[44]: fr=np.array([34,56,78] )
```

```
[50]: dt=np.concatenate((data,fr.reshape(3)),axis=0)
```

```
-----
ValueError                                Traceback (most recent call last)
/tmp/ipykernel_64/280266124.py in <module>
----> 1 dt=np.concatenate((data,fr.reshape(3)),axis=0)

<__array_function__ internals> in concatenate(*args, **kwargs)

ValueError: all the input arrays must have same number of dimensions, but the
↳array at index 0 has 2 dimension(s) and the array at index 1 has 1 dimension(s)
```

```
[48]: data.shape
```

```
[48]: (4, 3)
```

```
[51]: ty=[43,78,78,67]
```

```
[52]: np.median(ty)
```

```
[52]: 72.5
```

```
[53]: np.mean(ty)
```

```
[53]: 66.5
```

```
[54]: np.std(ty)
```

```
[54]: 14.291605927956452
```

```
[55]: np.max(ty)
```

```
[55]: 78
```

```
[56]: np.min(ty)
```

```
[56]: 43
```

```
[57]: np.var(ty)
```

```
[57]: 204.25
```

```
[58]: np.sum(ty)
```

```
[58]: 266
```

```
[63]: er=30.4567
```

```
[64]: np.round(er)
```

```
[64]: 30.0
```

```
[65]: np.transpose(er)
```

```
[65]: array(30.4567)
```

```
[70]: import matplotlib.pyplot as plt  
data.shape
```

[70]: (4, 3)

```
[71]: we=np.array([[23,45,67],
                  [23,56,78],
                  [56,78,65]])
      re=np.array([[54,67,87],
                  [45,67,76],
                  [34,67,45]])
```

```
[72]: we+re
```

[72]: array([[ 77, 112, 154],  
 [ 68, 123, 154],  
 [ 90, 145, 110]])

```
[73]: we-re
```

[73]: array([[ -31, -22, -20],  
 [-22, -11, 2],  
 [ 22, 11, 20]])

```
[74]: we*2
```

[74]: array([[ 46, 90, 134],  
 [ 46, 112, 156],  
 [112, 156, 130]])

```
[79]: we+3
```

[79]: array([[26, 48, 70],  
 [26, 59, 81],  
 [59, 81, 68]])

```
[76]: we/2
```

[76]: array([[11.5, 22.5, 33.5],  
 [11.5, 28. , 39. ],  
 [28. , 39. , 32.5]])

```
[77]: we*re
```

[77]: array([[1242, 3015, 5829],  
 [1035, 3752, 5928],  
 [1904, 5226, 2925]])

```
[80]: we%4
```

```
[80]: array([[3, 1, 3],
           [3, 0, 2],
           [0, 2, 1]])
```

```
[81]: re+np.array([12,76,89])
```

```
[81]: array([[ 66, 143, 176],
           [ 57, 143, 165],
           [ 46, 143, 134]])
```

```
[82]: we>re
```

```
[82]: array([[False, False, False],
           [False, False,  True],
           [ True,  True,  True]])
```

```
[83]: we<re
```

```
[83]: array([[ True,  True,  True],
           [ True,  True, False],
           [False, False, False]])
```

```
[86]: we==re
```

```
[86]: array([[ True,  True,  True],
           [ True,  True,  True],
           [ True,  True,  True]])
```

```
[90]: (re==we).sum()
```

```
[90]: 9
```

```
[ ]:
```