## ASSIGNMENT [ 14/ 12/ 63 ]

# ชื่อ นายธีรภัทร เฮง เลขประจำตัวนักเรียน 22275

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PYTHON CODE
 import numpy as np
 def funcReadScores(n):
   #n = int( input('enter num') )
   allsc = []
   for i in range(n):
     sc = []
     s3 = [int(s) for s in input().split()]
     allsc.append(s3)
   S = np.array(allsc)
   w3 = [float(w) for w in input().split()]
   W = np.array(w3)
   A = S*W
   print('Final Scores')
   for r in range(n):
     sumscore = sum(A[r])
    print(sumscore)
RESULT
  >>> funcReadScores(4)
                                          Final Scores
  10 15 10
  20 5 15
                                          11.25
  14 8 7
                                          15.0
  12 12 12
                                          10.75
  0.5 0.25 0.25
                                          12.0
```

## PYTHON CODE

```
import numpy as np
 cost book = [int(e) for e in input('enter book\'s price
[novel,documentary,traveling,cartton] = ').split()]
 allsc = []
 for i in range(4):
    s3 = [int(s) for s in input('enter the number of books in each day)]
[mon,tues,wednes,thurs,fri]=').split()]
    allsc.append(s3)
 S = np.array(allsc)
 #print(S)
 sums = np.sum(S,axis=0)
 #print(sums)
 maxs = np.max(sums)
 for a in range(len(sums)):
    if sums[a] == maxs:
      if a == 0:
         print('mon {}'.format(maxs))
      elif a == 1:
         print('tues {}'.format(maxs))
      elif a == 2:
         print('wed {}'.format(maxs))
      elif a == 3:
         print('thu {}'.format(maxs))
      elif a == 4:
         print('fri {}'.format(maxs))
  #print(cost_book)
 price = 0
```

```
lst = []
row,col = S.shape
for c in range(col):
    for r in range(row):
        cost = S[r,c]*cost_book[r]
        price = price + cost
    lst.append(price)
    price = 0
g = "
for b in range(len(lst)):
    g += str(lst[b])+''
print(g)
```

#### RESULT

```
enter book's price [novel,documentary,traveling,cartton] = 50 30 40 20 enter the number of books in each day [mon,tues,wednes,thurs,fri]= 20 50 10 15 20 enter the number of books in each day [mon,tues,wednes,thurs,fri]= 30 40 20 65 35 enter the number of books in each day [mon,tues,wednes,thurs,fri]= 75 30 42 70 45 enter the number of books in each day [mon,tues,wednes,thurs,fri]= 40 25 35 22 55 thu 172 5700 5400 3480 5940 4950
```

## PYTHON CODE

```
import numpy as np
def read_height_weight():
  n = int(input('enter the number of people = '))
  allsc = []
  for i in range(n):
     s3 = [int(s) \text{ for } s \text{ in input('enter height & weight = ').split() }]
     allsc.append(s3)
  return np.array(allsc)
def cm_to_m(allsc):
  1st = []
  1st 2 = []
  row,col = allsc.shape
  for i in range(row):
     x = allsc[i,0]
     y = x/100
     lst.append(y)
  return lst
def cal bmi(allsc):
  1st = []
  row,col = allsc.shape
  for i in range(row):
     bmi = allsc[i,1]/((allsc[i,0]/100)**2)
     lst.append(bmi)
  return 1st
def main():
  hw = read_height_weight()
  m = cm to m(hw)
  bmi = cal\_bmi(hw)
```

```
print(bmi)

average = sum(bmi)/len(bmi)

print('average of bmi =',average)

count = 0

for i in range(len(bmi)):

if bmi[i] < 18.5:

count += 1

print('num of bmi<18.5 =',count)

for e in range(len(bmi)):

if bmi[e] < 18.5:

print(bmi[e],'Underweight')

elif 18.5 < bmi[e] < 25.0:

print(bmi[e],'Normal')

elif bmi[e] >25.0:

print(bmi[e],'Overweight')
```

#### RESULT

```
>>> main()
enter the number of people = 4
enter height & weight = 160 60
enter height & weight = 155 62
enter height & weight = 170 54
enter height & weight = 180 55
average of bmi = 21.22609534053624
num of bmi<18.5 = 1
23.4374999999999999 Normal
25.806451612903224 Overweight
18.68512110726644 Normal
16.975308641975307 Underweight
```