Importing necessary modules

In [1]:

```
import numpy as np
from numpy import genfromtxt
```

Task1: To import dataset and find average of age column

In [2]:

```
emp_data = genfromtxt(r"K:\Desktop\DS1_C4_S1_Datafile\DS1_C4_S1_Datafile\DS1_C4_S1_Employee_Data_Challenge.csv", delimiter=',',dtype=int,s
cust_data=genfromtxt(r"K:\Desktop\DS1_C4_S1_Datafile\DS1_C4_S1_Datafile\DS1_C4_S1_Shopping_Data_Challenge.csv",delimiter=",",dtype=int,sk

print("The average of age of employees = ",np.mean(emp_data[:,1]))
```

```
The average of age of employees =  28.26
```

Task2: To identify employees who are more than 25yrs along with emp_code

In [11]:

```
print("Total Employees who are more than 25 years old and thier employee_codes = ",len(emp_data[np.where(emp_data[:,1]>25)]))
print(emp_data[np.where(emp_data[:,1]>25)])
```

```
Total Employees who are more than 25 years old and thier employee_codes =  38
[[ 2 27]
 [ 3 31]
 [ 4 29]
 [ 5 27]
 [ 6 26]
 [ 7 27]
 [ 9 27]
 [10 32]
 [11 28]
 [12 27]
 [14 27]
 [15 35]
 [16 33]
 [17 28]
 [20 27]
 [21 37]
 [22 27]
 [24 27]
 [25 28]
 [26 26]
 [27 27]
 [28 27]
 [29 29]
 [30 49]
 [31 26]
 [32 32]
 [33 26]
 [37 28]
 [38 28]
 [40 26]
 [41 32]
 [42 35]
 [43 33]
 [44 31]
 [45 30]
 [46 36]
 [49 32]
 [50 34]]
```

Task3: To identify employees with more than 30 and less than 35 years of age along with employee_code

In [10]:

```
print(emp_data[(np.where((emp_data[:,1] > 30) & (emp_data[:,1] < 35)))])
print()
print("Total number of employees of -> ",len(emp_data[(np.where((emp_data[:,1] > 30) & (emp_data[:,1] < 35)))]))
```

```
[[ 3 31]
 [10 32]
 [16 33]
 [32 32]
 [41 32]
 [43 33]
 [44 31]
 [49 32]
 [50 34]]

Total number of employees of ->  9
```

Task4 : To identify customers who have spending score more than 80 and display thier scores

In [13]:

```
print("Total number of customers having more than 80 =",len(cust_data[np.where(cust_data[:,3]>80)]))
cust_data[np.where(cust_data[:,3]>80)]
```

```
Total number of customers having more than 80 = 30
```

Out[13]:

```
array([[  2,  21,  15,  81],
       [  8,  23,  18,  94],
       [ 12,  35,  19,  99],
       [ 20,  35,  23,  98],
       [ 26,  29,  28,  82],
       [ 30,  23,  29,  87],
       [ 34,  18,  33,  92],
       [ 36,  21,  33,  81],
       [ 42,  24,  38,  92],
       [124,  39,  69,  91],
       [128,  40,  71,  95],
       [136,  29,  73,  88],
       [142,  32,  75,  93],
       [144,  32,  76,  87],
       [146,  28,  77,  97],
       [150,  34,  78,  90],
       [152,  39,  78,  88],
       [156,  27,  78,  89],
       [162,  29,  79,  83],
       [164,  31,  81,  93],
       [168,  33,  86,  95],
       [174,  36,  87,  92],
       [176,  30,  88,  86],
       [180,  35,  93,  90],
       [182,  32,  97,  86],
       [184,  29,  98,  88],
       [186,  30,  99,  97],
       [190,  36, 103,  85],
       [194,  38, 113,  91],
       [200,  30, 137,  83]])
```

Task5: To identify customers who are in age group 20 to 25

In [6]:

```
print(cust_data[(np.where((cust_data[:,1] >=20) & (cust_data[:,1] < 25)))])
```

```
[[  2  21  15  81]
 [  3  20  16   6]
 [  4  23  16  77]
 [  6  22  17  76]
 [  8  23  18  94]
 [ 14  24  20  77]
 [ 16  22  20  79]
 [ 18  20  21  66]
 [ 30  23  29  87]
 [ 32  21  30  73]
 [ 36  21  33  81]
 [ 40  20  37  75]
 [ 42  24  38  92]
 [ 46  24  39  65]
 [ 79  23  54  52]
 [ 85  21  54  57]
 [ 88  22  57  55]
 [ 96  24  60  52]
 [100  20  61  49]
 [101  23  62  41]
 [106  21  62  42]
 [125  23  70  29]
 [135  20  73   5]]
```