Task 1 :-

Read the data from employee data file and find the average age of all the empoyees

In [2]:

```
import numpy as np
from numpy import genfromtxt

emp_code = genfromtxt(r'E:\Aishwarya official\Aishwarya Data Scince\Course 4\DS1_C4_S1_Datafile\DS1_C4_S1_Employee_Data_Challenge.csv',
                      delimiter=',',dtype=int, skip_header=1)
emp_code
```

Out[2]:

```
array([[ 1, 22],
       [ 2, 27],
       [ 3, 31],
       [ 4, 29],
       [ 5, 27],
       [ 6, 26],
       [ 7, 27],
       [ 8, 23],
       [ 9, 27],
       [10, 32],
       [11, 28],
       [12, 27],
       [13, 22],
       [14, 27],
       [15, 35],
       [16, 33],
       [17, 28],
       [18, 22],
       [19, 25],
       [20, 27],
       [21, 37],
       [22, 27],
       [23, 24],
       [24, 27],
       [25, 28],
       [26, 26],
       [27, 27],
       [28, 27],
       [29, 29],
       [30, 49],
       [31, 26],
       [32, 32],
       [33, 26],
       [34, 24],
       [35, 24],
       [36, 23],
       [37, 28],
       [38, 28],
       [39, 22],
       [40, 26],
       [41, 32],
       [42, 35],
       [43, 33],
       [44, 31],
       [45, 30],
       [46, 36],
       [47, 22],
       [48, 23],
       [49, 32],
       [50, 34]])
```

In [6]:

```
avg_age = np.mean(emp_code [:,1])
avg_age
```

Out[6]:

```
28.26
```

Task 3:-

To identify employees wiyh more 30 and less tan 35 years of age alomg with employees_code

In [3]:

```
Age2 = np.where((emp_code [:,1]>30) & (emp_code [:,1]<35))
print(emp_code[Age2])
```

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

In [ ]:

```

```

Task 2:-

```
Fetch the rows corresponding to ages between 20 and 24
```

In [24]:

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

```
[[ 1 22]
 [ 8 23]
 [13 22]
 [18 22]
 [19 25]
 [23 24]
 [34 24]
 [35 24]
 [36 23]
 [39 22]
 [47 22]
 [48 23]]
```

Task 3 :-

```
coustomers IDs of those who have the lowest annual and highest inccome .
```

In [25]:

```
import numpy as np
from numpy import genfromtxt

shopping = genfromtxt(r'E:\Aishwarya official\Aishwarya Data Scince\Course 4\DS1_C4_S1_Datafile\DS1_C4_S1_Shopping_Data_Challenge.csv',
                      delimiter=',',dtype=int, skip_header=1)
shopping
```

Out[25]:

```
array([[  1,  19,  15,  39],
       [  2,  21,  15,  81],
       [  3,  20,  16,   6],
       [  4,  23,  16,  77],
       [  5,  31,  17,  40],
       [  6,  22,  17,  76],
       [  7,  35,  18,   6],
       [  8,  23,  18,  94],
       [  9,  64,  19,   3],
       [ 10,  30,  19,  72],
       [ 11,  67,  19,  14],
       [ 12,  35,  19,  99],
       [ 13,  58,  20,  15],
       [ 14,  24,  20,  77],
       [ 15,  37,  20,  13],
       [ 16,  22,  20,  79],
       [ 17,  35,  21,  35],
       [ 18,  20,  21,  66],
```

In [34]:

```
minimum = np.min(shopping[:,2])
print(shopping[minimum])
maximum = np.max(shopping[:,2])
print(shopping[maximum])
```

```
[16 22 20 79]
[138  32  73  73]
```

Task 4 :-

spending score is more than 75

In [39]:

```
Discount = np.where(shopping[:,3]>75)
print(shopping[Discount])
```

```
[[  2  21  15  81]
 [  4  23  16  77]
 [  6  22  17  76]
 [  8  23  18  94]
 [ 12  35  19  99]
 [ 14  24  20  77]
 [ 16  22  20  79]
 [ 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]
 [126  31  70  77]
 [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]
 [154  38  78  76]
 [156  27  78  89]
 [158  30  78  78]
 [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]
 [196  35 120  79]
 [200  30 137  83]]
```

Task 5 :- To identify employees wiyh more 30 and less tan 35 years of age alomg with employees_code

In [40]:

```
Age2 = np.where((emp_code [:,1]>30) & (emp_code [:,1]<35))
print(emp_code[Age2])
```

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

In [ ]: