Question

#use us_births data to compute the following using np:
#extract the year, gender and births column from the data
#compute the aggregation of sum of total birth, sum of female birth and sum of male birth, mean and med
ian
#compute the maximum births and minimum births
#indicate the gender with minimum birth and maximum birth
#indicate the year with minimum birth and maximum birth

In [93]:

import numpy as np
 import pandas as pd

```
In [155]: birth = pd.read_csv('C:\\Users\\AYODEJI\\Desktop\\Numpy class\\Datasets - Copy\\us_births.csv')
  one=birth.drop(["month","day"], axis = 1)
  one
```

Out[155]:

	year	gender	births
0	1969	F	4046
1	1969	М	4440
2	1969	F	4454
3	1969	М	4548
4	1969	F	4548
15542	2008	М	183219
15543	2008	F	158939
15544	2008	М	165468
15545	2008	F	173215
15546	2008	М	181235

15547 rows × 3 columns

```
In [42]:  print("sum of total birth:",np.sum( birth["births"]))
```

sum of total birth: 151774378

sum of female birth is >> 74035823
mean of female birth is >> 9521.067772633745
median of female birth is >> 4688.5

```
data1 = one[(one["gender"] == "M")]
In [161]:
              data1
             print("sum of male birth is >>", data1["births"].sum())
             print("mean of male birth is >>", data1["births"].mean())
             print("median of male birth is >>", data1["births"].median())
              sum of male birth is >> 77738555
              mean of male birth is >> 10003.674559258783
              median of male birth is >> 4938.0
           print("the highiest number of births within a year is >>",one["births"].max())
In [163]:
             print("the lowestest number of births within a year is >>",one["births"].min())
             the highiest number of births within a year is >> 199622
              the lowestest number of births within a year is >> 1
          print("the gender with the highiest birth is >>", one["gender"][one["births"].argmax()])
In [152]:
              print("the gender with the lowest birth is >>", one["gender"][one["births"].argmin()])
              the gender with the highiest birth is >> M
              the gender with the lowest birth is >> F
In [154]:
           print("the year with the highiest birth is >>", one["year"][one["births"].argmax()])
             print("the year with the lowest birth is >>", one["year"][one["births"].argmin()])
              the year with the highiest birth is >> 2007
              the year with the lowest birth is >> 1975
```