In [ ]:

```
Task 2 : Calculate Summary  Statistics
Calculate summary statistics(mean, median, mode, standard deviation) for a dataset
By NIVEDHA M
```

In [ ]:

```
#Implementing the Dependencies
```

In [1]:

```python
import pandas as pd
import numpy as np
```

In [ ]:

```
#Data Reading
```

In [2]:

```python
gender_data = pd.read_csv("gender_submission.csv")
print(gender_data)
```

```
     PassengerId  Survived
0            892         0
1            893         1
2            894         0
3            895         0
4            896         1
..           ...       ...
413         1305         0
414         1306         1
415         1307         0
416         1308         0
417         1309         0

[418 rows x 2 columns]
```

In [ ]:

```
#Using the describe() to find the statistics(mean, median, mode, standard deviation)
```

In [3]:

```python
#Calculating the statistics (mean, median, mode, standard deviation)
gender_data.describe()
```

Out[3]:

	PassengerId	Survived
count	418.000000	418.000000
mean	1100.500000	0.363636
std	120.810458	0.481622
min	892.000000	0.000000
25%	996.250000	0.000000
50%	1100.500000	0.000000
75%	1204.750000	1.000000
max	1309.000000	1.000000

In [5]:

```python
gender_data.median()
```

Out[5]:

```
PassengerId    1100.5
Survived          0.0
dtype: float64
```

In [6]:

```python
gender_data.mode()
```

Out[6]:

	PassengerId	Survived
0	892	0.0
1	893	NaN
2	894	NaN
3	895	NaN
4	896	NaN
...	...	...
413	1305	NaN
414	1306	NaN
415	1307	NaN
416	1308	NaN
417	1309	NaN

418 rows × 2 columns

In [ ]: