```
import pandas as pd
from google.colab import files
uploaded=files.upload()
```

Choose Files loan_data_set.csv

- **loan_data_set.csv**(application/vnd.ms-excel) - 38013 bytes, last modified: 10/11/2019 - 100% done

```
Saving loan_data_set.csv to loan_data_set.csv
```

```
import io
df2=pd.read_csv(io.BytesIO(uploaded['loan_data_set.csv']))
print(df2.shape)
df2
```

```
(614, 13)
```

	Loan_ID	Gender	Married	Dependents	Education	Self_Employed	ApplicantIncom
0	LP001002	Male	No	0	Graduate	No	584
1	LP001003	Male	Yes	1	Graduate	No	458
2	LP001005	Male	Yes	0	Graduate	Yes	300
3	LP001006	Male	Yes	0	Not Graduate	No	258
4	LP001008	Male	No	0	Graduate	No	600
...	...	...	...	...	...	...	.
609	LP002978	Female	No	0	Graduate	No	290
610	LP002979	Male	Yes	3+	Graduate	No	410
611	LP002983	Male	Yes	1	Graduate	No	807
612	LP002984	Male	Yes	2	Graduate	No	758
613	LP002990	Female	No	0	Graduate	Yes	458

614 rows × 13 columns

```
print(df2.loc[:,'ApplicantIncome'].mean())
print(df2.loc[:,'CoapplicantIncome'].mean())
```

```
5403.459283387622
```

```
3405.459285387022
1621.245798027101
```

```
print(df2.loc[:,'ApplicantIncome'].median())
print(df2.loc[:,'CoapplicantIncome'].median())
```

```
3812.5
1188.5
```

```
gk=df2.groupby('Gender')
gk.first()
```

Gender	Loan_ID	Married	Dependents	Education	Self_Employed	ApplicantIncome	Cc
Female	LP001036	No	0	Graduate	No	3510	
Male	LP001002	No	0	Graduate	No	5849	

```
print(df2.loc[:,'ApplicantIncome'].min())
print(df2.loc[:,'CoapplicantIncome'].min())
```

```
150
0.0
```

```
print(df2.loc[:,'ApplicantIncome'].max())
print(df2.loc[:,'CoapplicantIncome'].max())
```

```
81000
41667.0
```

```
print(df2.loc[:,'ApplicantIncome'].std())
print(df2.loc[:,'CoapplicantIncome'].std())
```

```
6109.041673387174
2926.2483692241917
```

```
df2.describe()
```

	ApplicantIncome	CoapplicantIncome	LoanAmount	Loan_Amount_Term	Credit_Hist
count	614.000000	614.000000	592.000000	600.00000	564.000
mean	5403.459283	1621.245798	146.412162	342.00000	0.842
std	6109.041673	2926.248369	85.587325	65.12041	0.364
min	150.000000	0.000000	9.000000	12.00000	0.000
25%	2877.500000	0.000000	100.000000	360.00000	1.000
50%	3812.500000	1188.500000	128.000000	360.00000	1.000
75%	5795.000000	2297.250000	168.000000	360.00000	1.000
max	81000.000000	41667.000000	700.000000	480.00000	1.000

```
gk.get_group('Male')
```

	Loan_ID	Gender	Married	Dependents	Education	Self_Employed	ApplicantIncom
0	LP001002	Male	No	0	Graduate	No	584

1	LP001003	Male	Yes	1	Graduate	No	458
3	LP001006	Male	Yes	0	[illegible]	No	258

```
df2.groupby(df2["Gender"]).ApplicantIncome.agg(["min","max","mean","median","std"])
```

	min	max	mean	median	std
Gender					
Female	210	19484	4643.473214	3583.0	3585.381488
Male	150	81000	5446.460123	3865.0	6185.789262

611	LP002983	Male	Yes	1	Graduate	No	807
612	LP002984	Male	Yes	2	Graduate	No	758

489 rows × 13 columns

✓ 0s completed at 11:05 PM