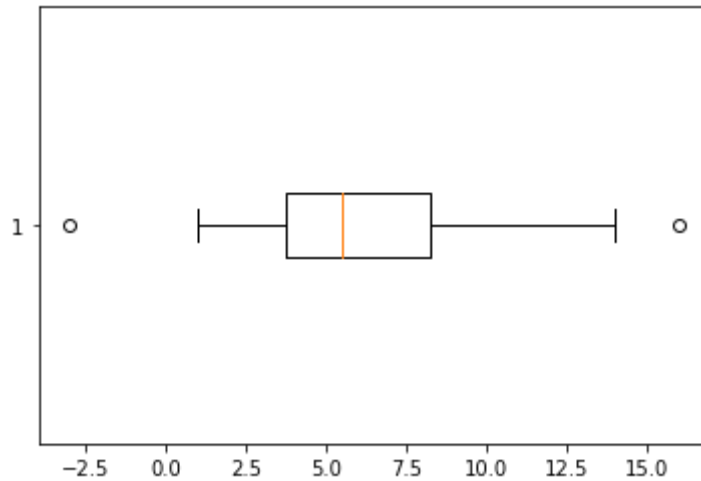


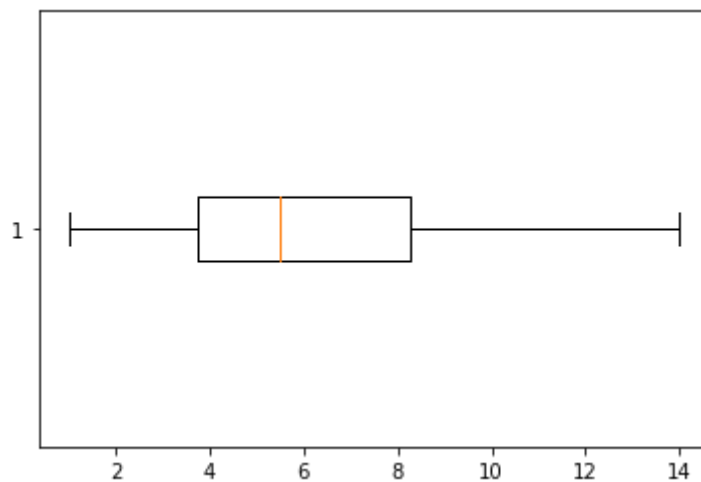
```
In [5]: import matplotlib.pyplot as plt
from matplotlib.pyplot import boxplot, show #libraries req for boxplot
import numpy as np

values = [2, 3, 4, 1, -3.04, 5, 4, 6, 7, 2, 4, 6, 8, 6, 9, 12, 14, 11, 5, 16] #data

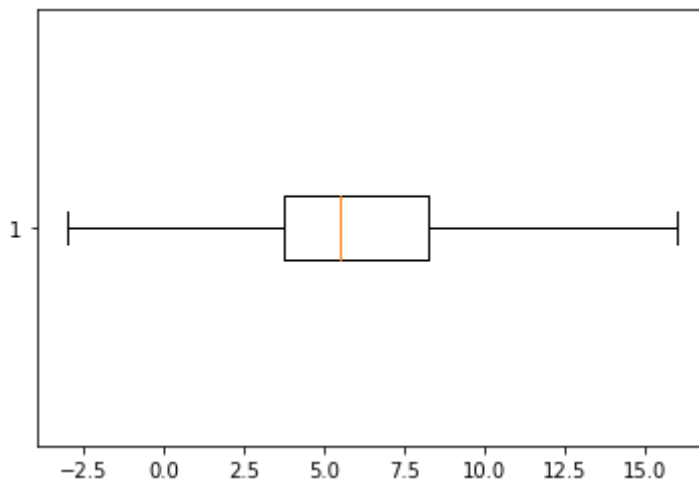
plt.boxplot(values, vert=False) #simple way to create a boxplot
plt.show()
```



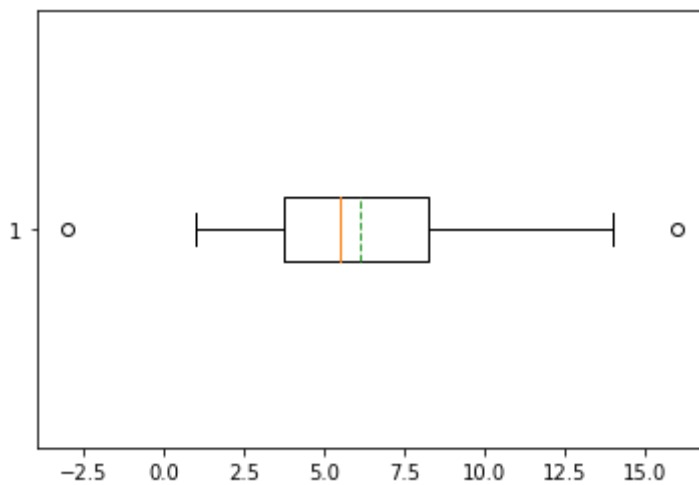
```
In [6]: plt.boxplot(values, showfliers=False, vert=False) #to remove all the outliers
plt.show()
```



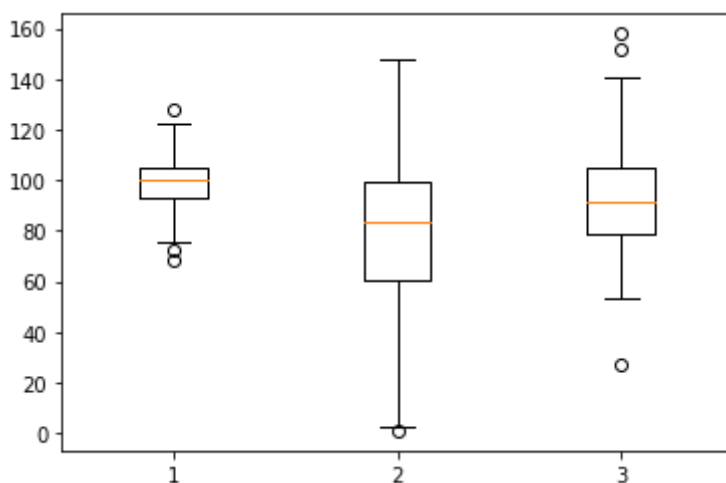
```
In [7]: #plt.boxplot(values, whis='range', vert=False) #to consider all the outliers under
plt.boxplot(values, whis=100, vert=False)
plt.show()
```



In [8]: `plt.boxplot(values, meanline=True, showmeans=True, vert=False) #to show the mean of  
plt.show()`



In [9]: `#to plot multiple boxplots in one plane  
collectn_1 = np.random.normal(100, 10, 200) #random generation of datapoints  
collectn_2 = np.random.normal(80, 30, 200)  
collectn_3 = np.random.normal(90, 20, 200)  
values = [collectn_1, collectn_2, collectn_3] #list of lists of datapoints  
plt.boxplot(values)  
plt.show()`



In [10]: `import pandas as pd  
import numpy as np`

```
import matplotlib.pyplot as plt
%matplotlib inline
import statistics as st

df = pd.read_csv("C:\\Users\\Suresh Jamadagni\\downloads\\train.csv")
print(df)
```

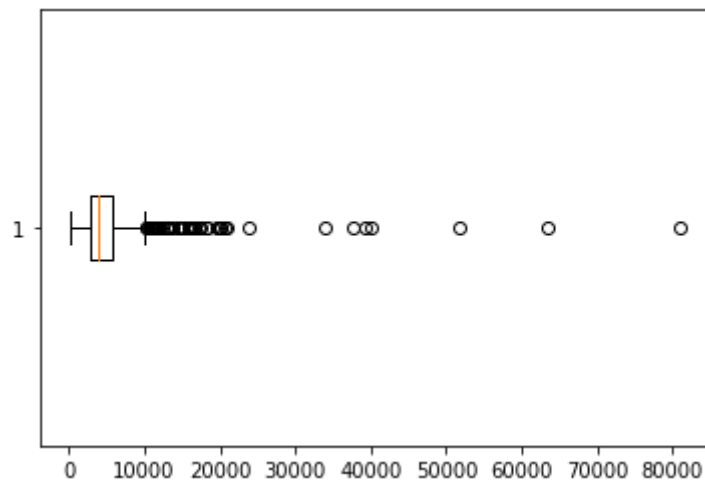
	Loan_ID	Gender	Married	Dependents	Education	Self_Employed	\
0	LP001002	Male	No	0	Graduate	No	
1	LP001003	Male	Yes	1	Graduate	No	
2	LP001005	Male	Yes	0	Graduate	Yes	
3	LP001006	Male	Yes	0	Not Graduate	No	
4	LP001008	Male	No	0	Graduate	No	
..	...	...	...	...	...	...	
609	LP002978	Female	No	0	Graduate	No	
610	LP002979	Male	Yes	3+	Graduate	No	
611	LP002983	Male	Yes	1	Graduate	No	
612	LP002984	Male	Yes	2	Graduate	No	
613	LP002990	Female	No	0	Graduate	Yes	

	ApplicantIncome	CoapplicantIncome	LoanAmount	Loan_Amount_Term	\
0	5849	0.0	NaN	360.0	
1	4583	1508.0	128.0	360.0	
2	3000	0.0	66.0	360.0	
3	2583	2358.0	120.0	360.0	
4	6000	0.0	141.0	360.0	
..	...	...	...	...	
609	2900	0.0	71.0	360.0	
610	4106	0.0	40.0	180.0	
611	8072	240.0	253.0	360.0	
612	7583	0.0	187.0	360.0	
613	4583	0.0	133.0	360.0	

	Credit_History	Property_Area	Loan_Status
0	1.0	Urban	Y
1	1.0	Rural	N
2	1.0	Urban	Y
3	1.0	Urban	Y
4	1.0	Urban	Y
..	...	...	...
609	1.0	Rural	Y
610	1.0	Rural	Y
611	1.0	Urban	Y
612	1.0	Urban	Y
613	0.0	Semiurban	N

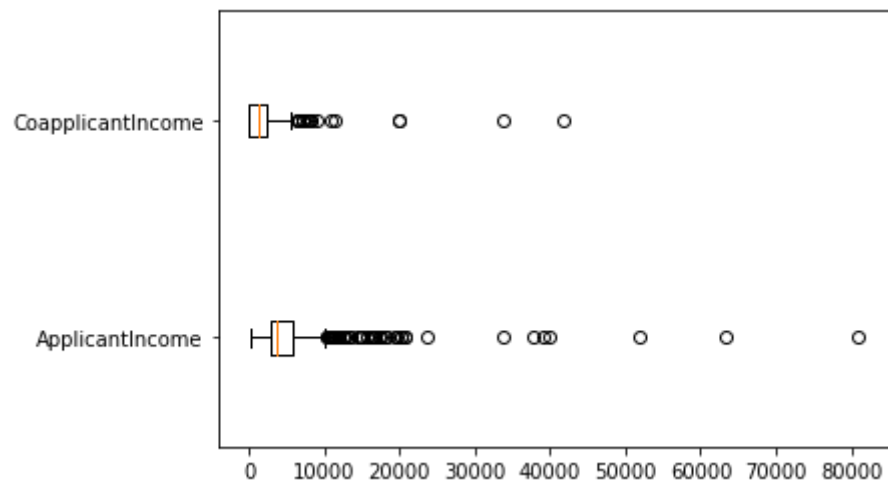
[614 rows x 13 columns]

```
In [11]: values=df['ApplicantIncome']
plt.boxplot(values, vert=False) #simple way to create a boxplot
plt.show()
```



```
In [12]: v1=df['ApplicantIncome']
v2=df['CoapplicantIncome']

values=[v1,v2]
plt.boxplot(values, vert=False,labels=['ApplicantIncome','CoapplicantIncome'])
plt.show()
```



In [ ]: