In [23]:
```python
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
data = pd.read_csv('Ecommerce Purchases.csv')
```

In [24]:
```python
ecome=pd.DataFrame(data)
```

In [3]:   1 (ecome)

Out[3]:

|	Address	Lot	AM or PM	Browser Info	Company	Credit Card	CC Exp Date	Sec C
0	16629 Pace Camp Apt. 448\nAlexisborough, NE 77...	46 in	PM	Opera/9.56.(X11; Linux x86_64; sl-SI) Presto/2...	Martinez-Herman	6011929061123406	02/20	9
1	9374 Jasmine Spurs Suite 508\nSouth John, TN 8...	28 rn	PM	Opera/8.93. (Windows 98; Win 9x 4.90; en-US) Pr...	Fletcher, Richards and Whitaker	3337758169645356	11/18	5
2	Unit 0065 Box 5052\nDPO AP 27450	94 vE	PM	Mozilla/5.0 (compatible; MSIE 9.0; Windows NT ...	Simpson, Williams and Pham	675957666125	08/19	6
3	7780 Julia Fords\nNew Stacy, WA 45798	36 vm	PM	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_8_0 ...	Williams, Marshall and Buchanan	6011578504430710	02/24	3
4	23012 Munoz Drive Suite 337\nNew Cynthia, TX 5...	20 IE	AM	Opera/9.58.(X11; Linux x86_64; it-IT) Presto/2...	Brown, Watson and Andrews	6011456623207998	10/25	6
...	...	...	...	...	...	...	...	...
1550	Unit 6464 Box 1867\nDPO AE 64264-4077	07 fR	PM	Mozilla/5.0 (iPod; U; CPU iPhone OS 4_0 like M...	Walton, Juarez and Sutton	869958704428076	06/19	34
1551	899 Kenneth Course\nNew Renee, FL 79150-4075	47 Fg	PM	Mozilla/5.0 (X11; Linux i686) AppleWebKit/5311...	Hobbs Ltd	377219697300813	05/19	4
1552	12886 Hernandez Plaza Suite 231\nPort Shawn, A...	55 oS	PM	Mozilla/5.0 (Windows NT 5.0; sl-SI; rv:1.9.0.2...	Moore Group	4634994272665803	09/23	1
1553	883 Hunt Squares\nEast Belindafurt, NJ 74861-2239	12 mh	AM	Opera/8.70. (Windows NT 5.2; sl-SI) Presto/2.9....	Clark, Dawson and Smith	4863740469983422	09/21	
1554	928 Austin Tunnel\nWest Jeremytown, AZ 11979	56 EE	PM	Mozilla/5.0 (iPod; U; CPU iPhone OS 3_1 like M...	Sanders, Rodriguez and Ruiz	2100292556	NaN	

1555 rows × 14 columns

In [25]:   `1  ecome.head()`

Out[25]:

	Address	Lot	AM or PM	Browser Info	Company	Credit Card	CC Exp Date	CC Security Code	Provi
0	16629 Pace Camp Apt. 448\nAlexisborough, NE 77...	46 in	PM	Opera/9.56. (X11; Linux x86_64; sl-SI) Presto/2...	Martinez-Herman	6011929061123406	02/20	900.0	JCB d
1	9374 Jasmine Spurs Suite 508\nSouth John, TN 8...	28 rn	PM	Opera/8.93. (Windows 98; Win 9x 4.90; en-US) Pr...	Fletcher, Richards and Whitaker	3337758169645356	11/18	561.0	Masterc
2	Unit 0065 Box 5052\nDPO AP 27450	94 vE	PM	Mozilla/5.0 (compatible; MSIE 9.0; Windows NT ...	Simpson, Williams and Pham	675957666125	08/19	699.0	JCB d
3	7780 Julia Fords\nNew Stacy, WA 45798	36 vm	PM	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_8_0 ...	Williams, Marshall and Buchanan	6011578504430710	02/24	384.0	Disco
4	23012 Munoz Drive Suite 337\nNew Cynthia, TX 5...	20 IE	AM	Opera/9.58. (X11; Linux x86_64; it-IT) Presto/2...	Brown, Watson and Andrews	6011456623207998	10/25	678.0	Din Clu Ca Blan
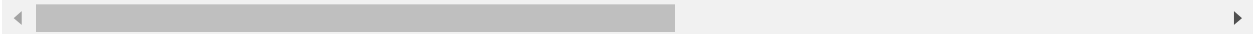
In [26]:   `1  ecome.describe()`

Out[26]:

	Credit Card	CC Security Code	Purchase Price
count	1.555000e+03	1554.000000	1554.000000
mean	2.300801e+15	883.466538	50.150933
std	2.275682e+15	1580.150936	29.096222
min	2.100293e+09	1.000000	0.030000
25%	3.051437e+13	278.000000	24.185000
50%	8.699828e+14	537.500000	50.980000
75%	4.474474e+15	807.000000	75.687500
max	6.012000e+15	9988.000000	99.790000

In [27]:
```
1 ecome.count()
```

Out[27]:
```
Address             1555
Lot                 1555
AM or PM            1555
Browser Info        1555
Company             1555
Credit Card         1555
CC Exp Date         1554
CC Security Code    1554
CC Provider         1554
Email               1554
Job                 1554
IP Address          1554
Language            1554
Purchase Price      1554
dtype: int64
```

In [28]:
```
1 ecome['Purchase Price'].mean()
```

Out[28]: 50.15093307593307

In [29]:
```
1 ecome['Purchase Price'].min()
2
```

Out[29]: 0.03

In [30]:
```
1 ecome['Purchase Price'].max()
```

Out[30]: 99.79

In [10]:
```
1 lang=ecome.loc[ecome['Language']=='en']
2 lang.count()
```

Out[10]:
```
Address             175
Lot                 175
AM or PM            175
Browser Info        175
Company             175
Credit Card         175
CC Exp Date         175
CC Security Code    175
CC Provider         175
Email               175
Job                 175
IP Address          175
Language            175
Purchase Price      175
dtype: int64
```

In [31]:
```
1  job=ecome.loc[ecome['Job']=='Lawyer']
2  job.count()
```

Out[31]:
```
Address            3
Lot                3
AM or PM           3
Browser Info       3
Company            3
Credit Card        3
CC Exp Date        3
CC Security Code   3
CC Provider        3
Email              3
Job                3
IP Address         3
Language           3
Purchase Price     3
dtype: int64
```

In [32]:
```
1  SplitedData=data[['Designation','Filed']]=ecome['Job'].str.split(',',expand=
2
```

In [33]:
```
1  SplitedData
```

Out[33]:

	0	1
0	Scientist	product/process development
1	Drilling engineer	None
2	Customer service manager	None
3	Drilling engineer	None
4	Fine artist	None
...	...	...
1550	Solicitor	Scotland
1551	Minerals surveyor	None
1552	Technical sales engineer	None
1553	Local government officer	None
1554	NaN	NaN

1555 rows × 2 columns

In [34]:
```python
plt.title("Bar graph ")
plt.bar(ecome['Purchase Price'], height=5)
plt.show()
```
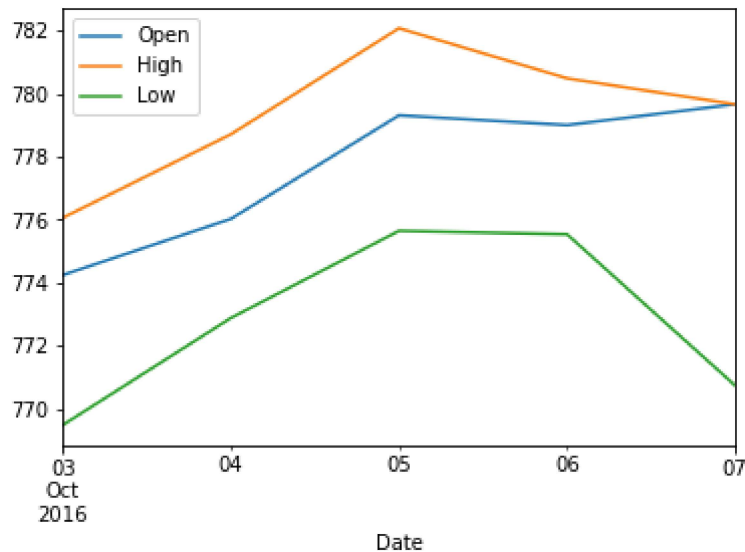

Bar graph
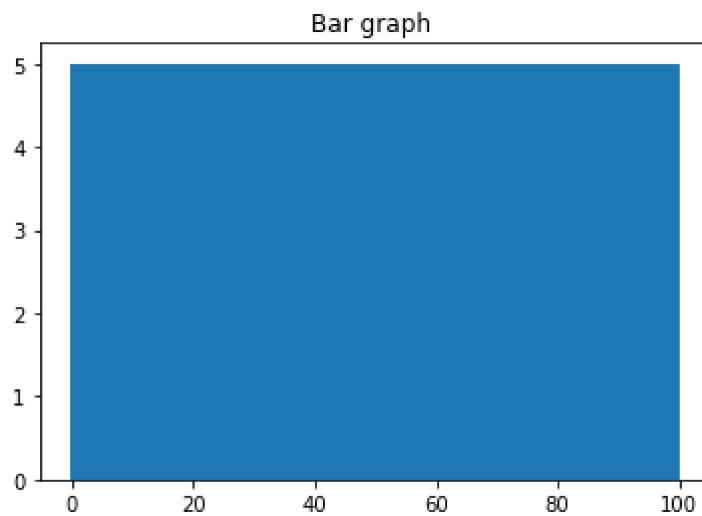
In [35]:
```python
plt.title("Histogram graph ")
plt.hist(ecome['Purchase Price'], bins=8)
plt.show()
```


Histogram graph
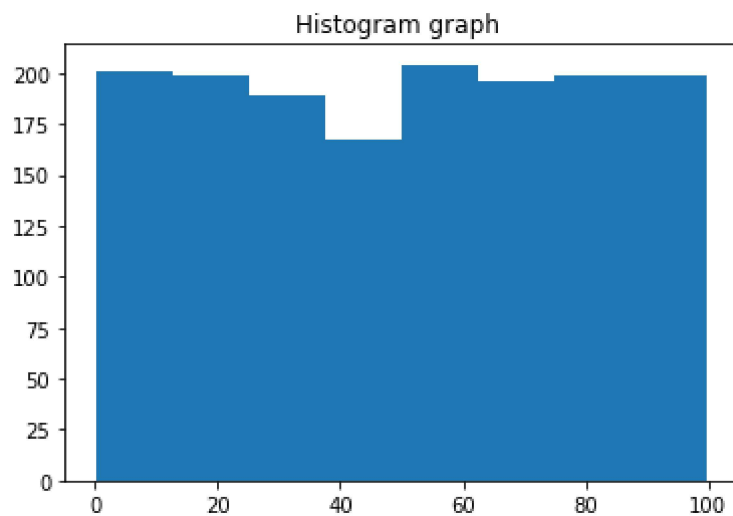
In [36]:
```python
feedata = pd.read_csv('fdata.csv', sep=',', parse_dates=True, index_col=0)
feedata.plot()
plt.show()
```


In [44]:
```python
import matplotlib.pyplot as plt
import numpy as np
#xpoints = np.array([1,4,5,6,7])
ypoints = np.array([2,6,3,6,3])

plt.plot(ypoints, 'o:r')

plt.show()
```