importing pandas library

In [1]:

```
1 import pandas as pd
```

reading csv file

In [ ]:

```
1 data=pd.read_csv("data_statistics
```

printing initial rows

In [ ]:

```
1 data.head()
```

importing pandas library

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```
1 import pandas as pd
```

reading csv file

In [ ]:

```
1 d.read_csv("data_statistics.csv")
```

printing initial rows

In [ ]:

```
1 data.head()
```

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```
1 data.head()
```

finding missing values in Item_weight column

In [ ]:

```
1 mean=data['Item_weight'].mean()
```

In [ ]:

```
1 missvalsum=mean-data['Item_weight
```

missval=missvalsum/80

```
1 # where 80 is approx number of
  missing values
```

finding missing values in outlet size

In [ ]:

```
1 freq_data=data['Outlet_Size'].val
```

In [ ]:

```
1 print(freq_data)
```

```
1 #this will print frequencies of
  small,medium,high in entire
  column through which we can find
  blank spaces.
```

drawing histogram

In [2]:

```
1 import pandas as pd
```

finding missing values in outlet size

In [ ]:

```
1 ata['Outlet_Size'].value_counts()
```

In [ ]:

```
1 print(freq_data)
```

```
1 #this will print frequencies of
  small,medium,high in entire
  column through which we can find
  blank spaces.
```

drawing histogram

In [2]:

```
1 import pandas as pd
```

drawing histogram

In [2]:

```
1 import pandas as pd
```

In [1]:

```
1 import matplotlib.pyplot as plt
```

In [4]:

```
1 %matplotlib inline
```

In [6]:

```
1 plt.hist(x='Item_visibility', dat
```

Out[6]:

```
(array([0., 0., 0., 0.,
0., 1., 0., 0., 0.,
0.]),
 array([-0.5, -0.4, -0.
```

In [4]:

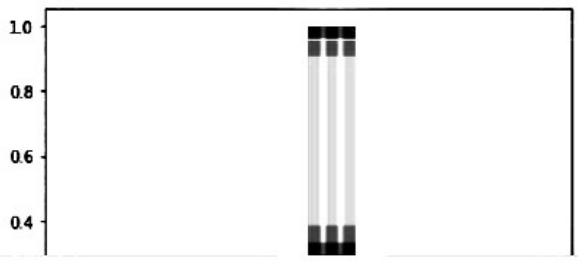
```
1 %matplotlib inline
```

In [6]:

```
1 plt.hist(x='Item_visibility', dat
```

Out[6]:

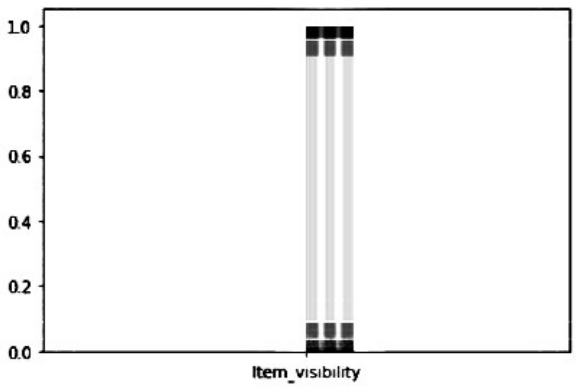
```
(array([0., 0., 0., 0.,
0., 1., 0., 0., 0.,
0.]),
 array([-0.5, -0.4, -0.
3, -0.2, -0.1,  0. ,  0.
1,  0.2,  0.3,  0.4,  0.
5]),
 <a list of 10 Patch obj
ects>)
```



```
1 em_visibility', data='histogram')
```

Out[6]:

```
(array([0., 0., 0., 0.,
0., 1., 0., 0., 0.,
0.]),
 array([-0.5, -0.4, -0.
3, -0.2, -0.1,  0. ,  0.
1,  0.2,  0.3,  0.4,  0.
5]),
 <a list of 10 Patch obj
ects>)
```



In [12]:

13:54

Untitled9 - Jupyter Notebook

jupyter Untitled9 Logout

Menu Trusted Python 3

Run Markdown

In [12]:

```
1 t_Sales',data='histogram',bins=5)
```

Out[12]:

```
(array([0., 0., 1., 0.,
0.]),
 array([-0.5, -0.3, -0.
1,  0.1,  0.3,  0.5]),
 <a list of 5 Patch obje
cts>)
```