In [1]:
```python
import numpy as np
import pandas as pd
```

In [2]:
```python
dataset=pd.read_csv(r"D:\ML_Course\Works_on_python\Linear_Regression\data.csv")
```

In [3]:
```python
dataset.head()
```

Out[3]:

	sno	Temperature	Pressure
0	1	0	0.0002
1	2	20	0.0012
2	3	40	0.0060
3	4	60	0.0300
4	5	80	0.0900

In [4]:
```python
dataset.isnull().any()
```

Out[4]:
```
sno            False
Temperature    False
Pressure       False
dtype: bool
```

In [5]:
```python
x=dataset.iloc[:,1:2].values
y=dataset.iloc[:,2:3].values
```

In [6]:
```python
x.shape
```

Out[6]: (6, 1)

In [7]:
```python
y.shape
```

Out[7]: (6, 1)

In [8]:
```python
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,random_state=0)
```

```python
In [9]: from sklearn.linear_model import LinearRegression
        lr=LinearRegression()
        lr.fit(x_train,y_train)
```

```
Out[9]: LinearRegression(copy_X=True, fit_intercept=True, n_jobs=None,
                 normalize=False)
```

```python
In [10]: y_pred=lr.predict(x_test)
```

```python
In [11]: x_test
```

```
Out[11]: array([[100],
                [ 40]], dtype=int64)
```

```python
In [12]: y_test
```

```
Out[12]: array([[0.27 ],
                [0.006]])
```

```python
In [13]: y_pred
```

```
Out[13]: array([[0.09287],
                [0.03035]])
```

```python
In [14]: from sklearn.metrics import r2_score
         accuracy=r2_score(y_test,y_pred)
```
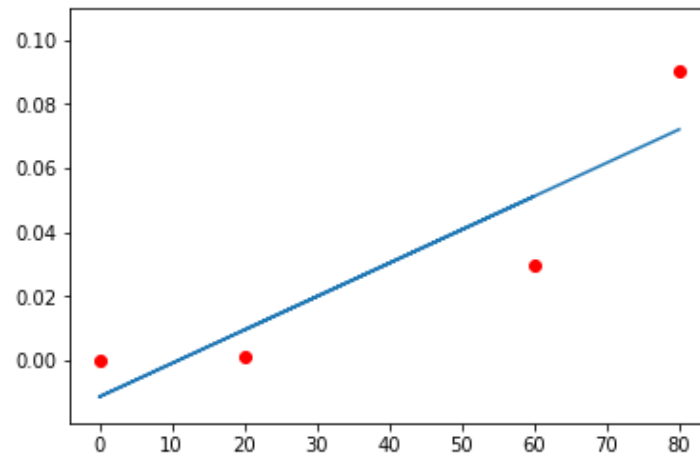
```python
In [15]: accuracy
```

```
Out[15]: 0.08264579315886134
```

```python
In [16]: import matplotlib.pyplot as plt
```
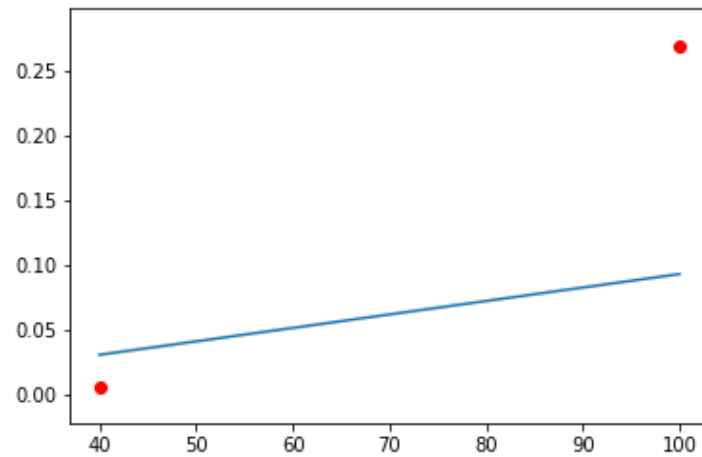
In [17]:
```python
plt.scatter(x_train,y_train,color="red")
plt.plot(x_train,lr.predict(x_train))
```

Out[17]: [<matplotlib.lines.Line2D at 0x2aafa4553c8>]

In [18]:
```python
plt.scatter(x_test,y_test,color="red")
plt.plot(x_test,y_pred)
```

Out[18]: [<matplotlib.lines.Line2D at 0x2aafa515668>]

In [ ]: