

```
In [18]: import numpy as np
import pandas as pd
```

```
In [19]: import warnings
warnings.simplefilter("ignore")
```

```
In [20]: data=pd.read_csv("WildBlueberryPollinationSimulationData.csv")
data
y=y.astype('float')
x=x.astype('float')
```

```
In [21]: data=data.loc[:,['RainingDays','AverageRainingDays','fruitset','fruitmass','seeds','yield']]
```

```
In [22]: data
```

```
Out[22]:
```

| | RainingDays | AverageRainingDays | fruitset | fruitmass | seeds | yield |
|-----|-------------|--------------------|----------|-----------|-----------|-------------|
| 0 | 16.00 | 0.26 | 0.410652 | 0.408159 | 31.678898 | 3813.165795 |
| 1 | 1.00 | 0.10 | 0.444254 | 0.425458 | 33.449385 | 4947.605663 |
| 2 | 16.00 | 0.26 | 0.383787 | 0.399172 | 30.546306 | 3866.798965 |
| 3 | 1.00 | 0.10 | 0.407564 | 0.408789 | 31.562586 | 4303.943030 |
| 4 | 24.00 | 0.39 | 0.354413 | 0.382703 | 28.873714 | 3436.493543 |
| ... | ... | ... | ... | ... | ... | ... |
| 772 | 3.77 | 0.06 | 0.486815 | 0.428012 | 33.447471 | 5333.873335 |
| 773 | 3.77 | 0.06 | 0.342841 | 0.377915 | 28.462005 | 3373.436842 |
| 774 | 24.00 | 0.39 | 0.404617 | 0.401670 | 30.748240 | 4203.027624 |
| 775 | 3.77 | 0.06 | 0.401538 | 0.399935 | 30.582161 | 4166.299735 |
| 776 | 24.00 | 0.39 | 0.384646 | 0.392303 | 29.742583 | 3943.131681 |

777 rows × 6 columns

```
In [23]: x=data.iloc[:,0]
```

```
In [24]: x.shape
```

```
Out[24]: (777,)
```

```
In [25]: x=data.iloc[:,0].values.reshape(-1,1)
```

```
In [26]: x.shape
```

```
Out[26]: (777, 1)
```

```
In [27]: y=data.iloc[:,1].values.reshape(-1,1)
```

```
In [28]: y.shape
```

```
Out[28]: (777, 1)
```

```
In [29]: x
```

```
Out[29]: array([[16. ],
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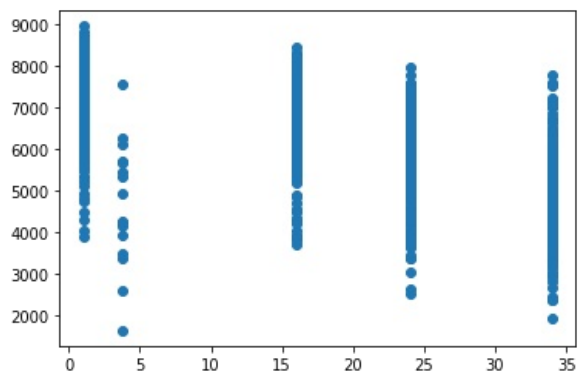
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```
In [31]: import matplotlib.pyplot as plt
%matplotlib inline
```

```
In [32]: plt.scatter(x,y)
plt.show()
```



```
In [33]: from sklearn.model_selection import train_test_split
```

```
In [34]: x_train, x_test, y_train, y_test = train_test_split(x,y,test_size = 0.2,random_state = 0)
```

```
In [35]: x_train.shape
```

```
Out[35]: (621, 1)
```

```
In [36]: x_test.shape
```

Out[36]: (156, 1)

```
In [37]: y_train.shape
```

Out[37]: (621, 1)

```
In [38]: x_test.shape
```

Out[38]: (156, 1)

```
In [40]: from sklearn.linear_model import LinearRegression
```

```
In [41]: lm = LinearRegression()
```

```
In [42]: lm.fit(x_train,y_train)
```

Out[42]: LinearRegression()

```
In [43]: y_pred = lm.predict(x_test)
```

```
In [44]: y_pred
```

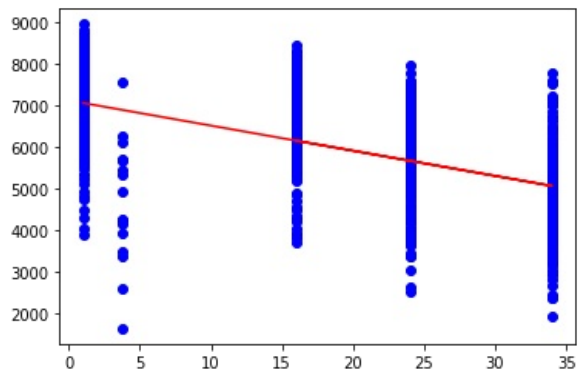
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plt.plot(x_test,y_pred,color = 'red')
```

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```
In [ ]:
```

```
In [ ]:
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