Install libraries

- Use pip if you are uisng windows
- Use pip3 if you are using macOS

```
#pip install numpy
#pip install pandas
#pip install scikit-learn
```

Import Libraries

```python
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from sklearn.model_selection import train_test_split
```

Load Dataset

- It is better to keep the dataset in the same folder in which you have your notebook, otherwise you have to enter the complete path

```python
# load dataset
df = pd.read_csv("mldata.csv")
```

```python
# Take relevant data
workshop_data = df[["age","weight","height"]]
```

```python
X = workshop_data.iloc[:, 1:2].values #get a copy of dataset exclude last column
y = workshop_data.iloc[:, :1].values #get array of dataset in column 1st
```

```python
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.25, random_sta
```

```python
# Fitting Simple Linear Regression to the Training set
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
regressor.fit(X_train, y_train)
```

```
LinearRegression()
```

```python
# Predicting the Test set results
y_pred = regressor.predict(X_test)
```

```python
# Visualizing the Training set results
viz_train = plt
viz_train.scatter(X_train, y_train, color='red')
viz_train.plot(X_train, regressor.predict(X_train), color='blue')
viz_train.title('Weight vs Age')
viz_train.xlabel('Weight')
```

```
viz_train.ylabel('Age')
viz_train.show()
```
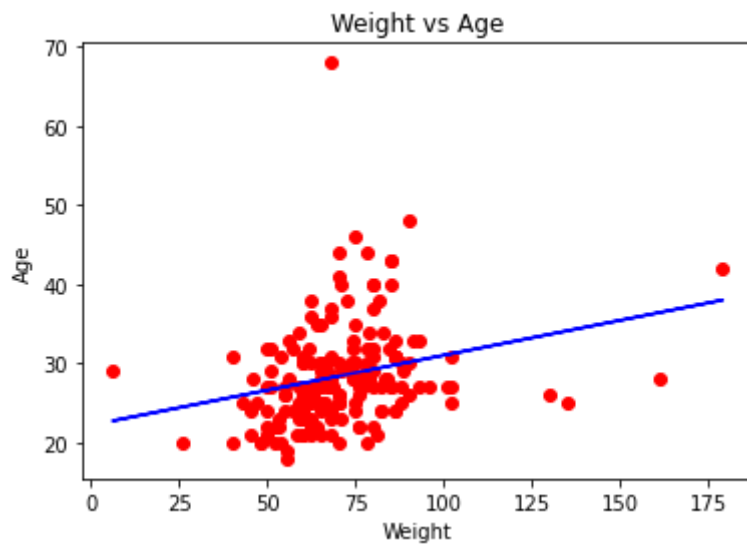
Weight vs Age

In [ ]:
```
# Visualizing the Test set results
viz_test = plt
viz_test.scatter(X_test, y_test, color='red')
viz_test.plot(X_train, regressor.predict(X_train), color='blue')
viz_test.title('Weight vs Age')
viz_test.xlabel('Weight')
viz_test.ylabel('Age')
viz_test.show()
```

Weight vs Age