In [1]:

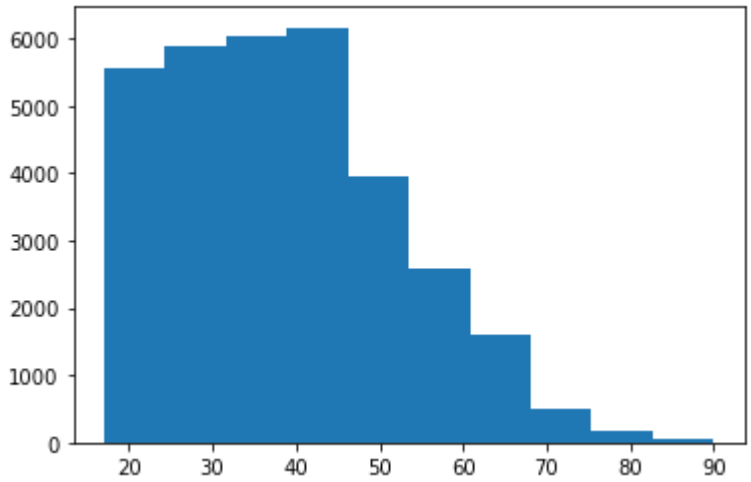
```
import pandas as pd
import numpy as np
adult_df = pd.read_csv('adult.csv')
```

In [2]:

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

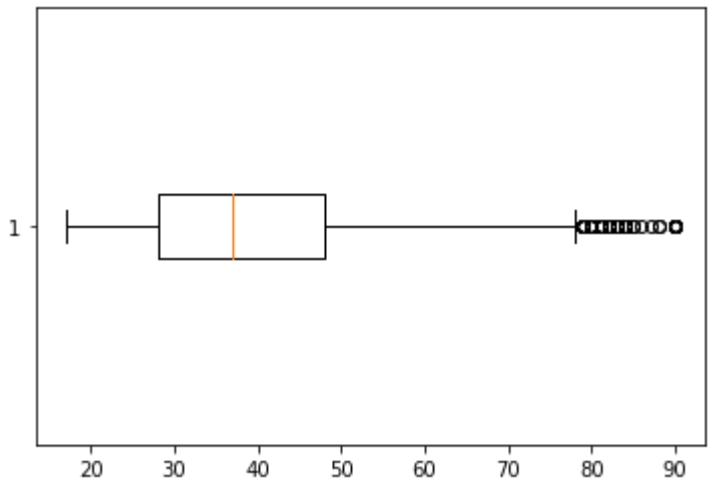
In [3]:

```
plt.hist(adult_df.age)
plt.show()
```



In [4]:

```
plt.boxplot(adult_df.age, vert=False)
plt.show()
```

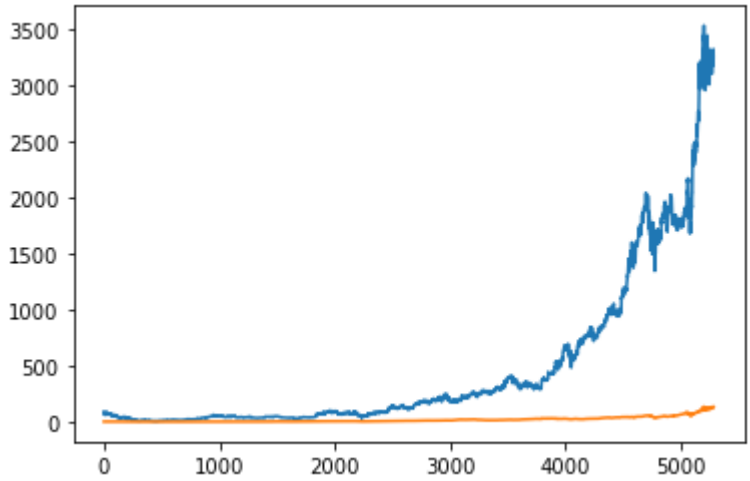


In [5]:

```
amz_df = pd.read_csv('Amazon Stock.csv')
apl_df = pd.read_csv('Apple Stock.csv')
```

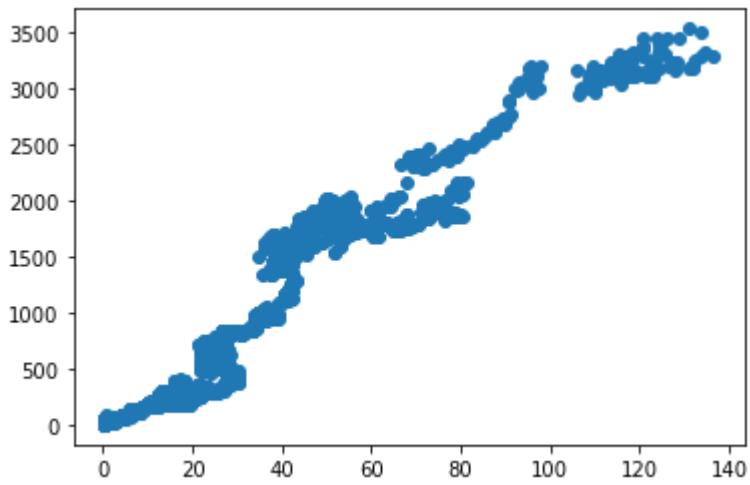
In [6]:

```
plt.plot(amz_df.Close)
plt.plot(apl_df.Close)
plt.show()
```



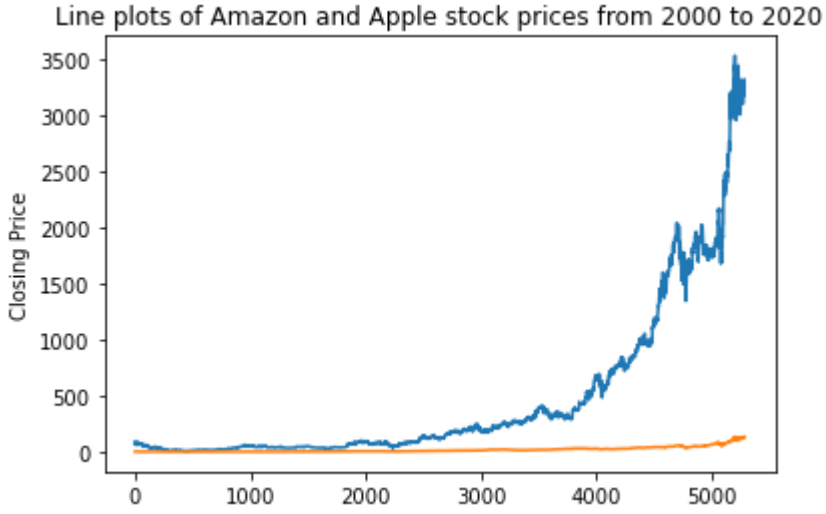
In [7]:

```
plt.scatter(apl_df.Close,amz_df.Close)
plt.show()
```



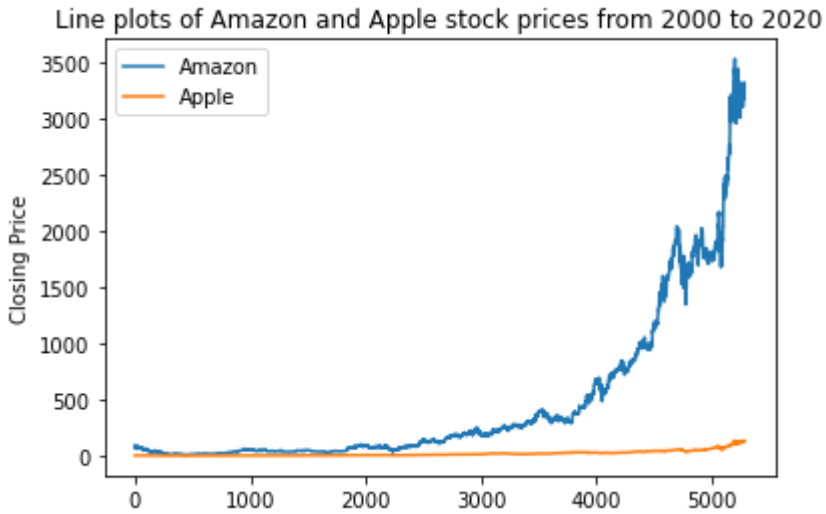
In [8]:

```
plt.plot(amz_df.Close)
plt.plot(apl_df.Close)
plt.title('Line plots of Amazon and Apple stock prices from 2000 to 2020')
plt.ylabel('Closing Price')
plt.show()
```



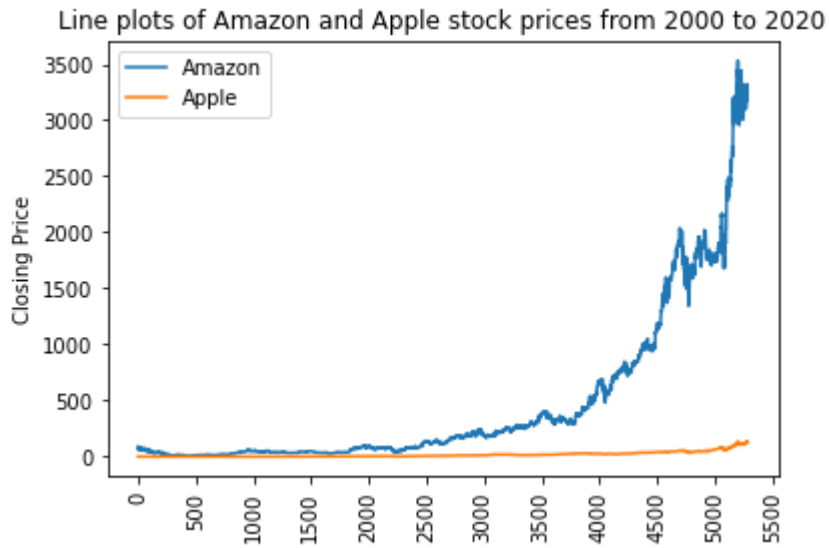
In [9]:

```
plt.plot(amz_df.Close, label='Amazon')
plt.plot(apl_df.Close, label='Apple')
plt.title('Line plots of Amazon and Apple stock prices from 2000 to 2020')
plt.ylabel('Closing Price')
plt.legend()
plt.show()
```



In [10]:

```
plt.plot(amz_df.Close, label='Amazon')
plt.plot(apl_df.Close, label='Apple')
plt.title('Line plots of Amazon and Apple stock prices from 2000 to 2020')
plt.ylabel('Closing Price')
plt.xticks([0,500,1000,1500,2000,2500,3000,3500,4000,4500,5000,5500],
           rotation=90)
plt.legend()
plt.show()
```



In [11]:

```
plt.plot(amz_df.Close, label='Amazon')
plt.plot(apl_df.Close, label='Apple')
plt.title('Line plots of Amazon and Apple stock prices from 2000 to 2020')
plt.ylabel('Closing Price')
plt.legend()
plt.xticks(np.arange(0,len(amz_df),250),amz_df.Date[0:len(amz_df):250],
           rotation=90)
plt.show()
```

In [12]:

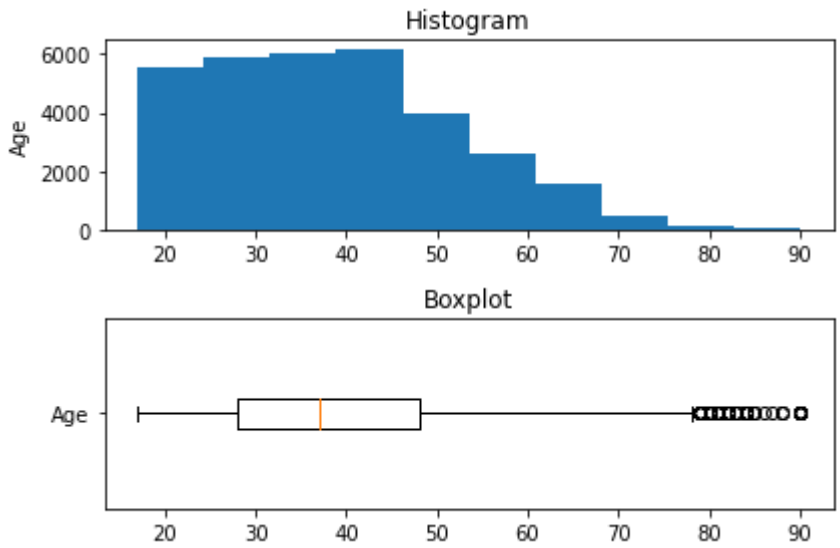
```
plt.scatter(apl_df.Close,amz_df.Close, marker = 'x', color='green')
plt.title('Amazon and Apple stock prices in 2000 to 2020')
plt.xlabel('Apple price ($)')
plt.ylabel('Amazon price ($)')
plt.show()
```

In [13]:

```
plt.subplot(2,1,1)
plt.hist(adult_df.age)
plt.title('Histogram')
plt.ylabel('Age')

plt.subplot(2,1,2)
plt.boxplot(adult_df.age, vert=False)
plt.title('Boxplot')
plt.yticks([1],['Age'])

plt.tight_layout()
plt.show()
```



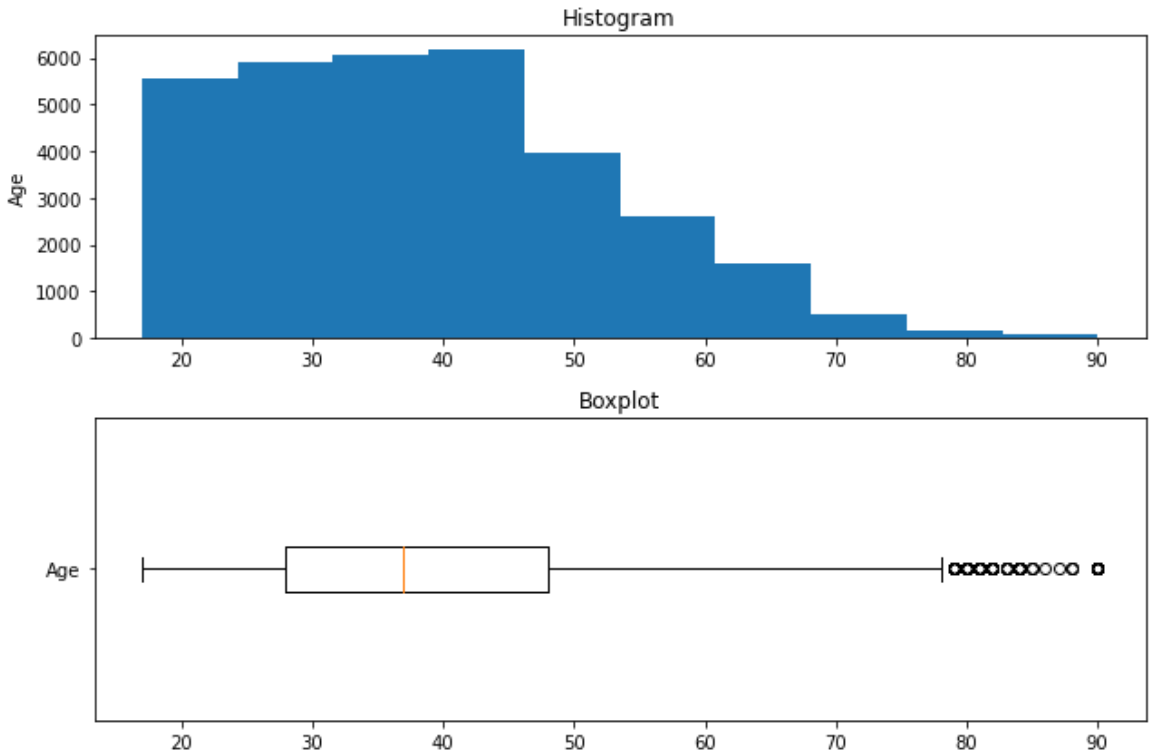
In [14]:

```
plt.figure(figsize=(9,6))

plt.subplot(2,1,1)
plt.hist(adult_df.age)
plt.title('Histogram')
plt.ylabel('Age')

plt.subplot(2,1,2)
plt.boxplot(adult_df.age, vert=False)
plt.title('Boxplot')
plt.yticks([1],['Age'])

plt.tight_layout()
plt.show()
```



In [15]:

```
Numerical_columns = ['age', 'education-num', 'capitalGain', 'capitalLoss', 'hours
PerWeek']

plt.figure(figsize=(20,5))

for i,col in enumerate(Numerical_columns):
    plt.subplot(2,5,i+1)
    plt.hist(adult_df[col])
    plt.title(col)

for i,col in enumerate(Numerical_columns):
    plt.subplot(2,5,i+6)
    plt.boxplot(adult_df[col],vert=False)
    plt.yticks([])


plt.tight_layout()
plt.savefig('ColumnsVsiaulization.png', dpi=900)
```