```
def plot_sectors(proj, sectors, sectors_to_plot):
    x, y, labels = [], [], []
    for i in range(proj.shape[0]):
         if sectors[i] in sectors_to_plot:
              x.append(proj[i][0])
              y.append(proj[i][1])
              labels.append(sectors[i])
    data = pd.DataFrame({"X Value": x, "Y Value": y, "Category": labels})
     for name, group in data.groupby("Category"):
         plt.plot( *args: group["X Value"], group["Y Value"], marker="o", linestyle="", label=name)
    plt.legend()
    plt.show()
mask = df['date'].apply(lambda x: x[:4] == '2016')
df = df[mask]
d= df[df['symbol'] == 'AAPL'].reset_index()
apple_close_prices = df.close
apple_close_prices.plot()
plt.show()
df = pd.read_csv('prices.csv')
def load_shares():
  securities = pd.read_csv('securities.csv')
  prices_df = prices_df[prices_df['date'].apply(lambda x: '2016' in x)]
  prices_df = prices_df[prices_df['symbol'].map(prices_df['symbol'].value_counts()) == 252]
  symbols = prices_df['symbol'].drop_duplicates().values.tolist()
   return np.array(symbols), np.array(prices), np.array([securities[securities['Ticker symbol'] == symbol]['GICS Sector'].values[0] for sy
```









