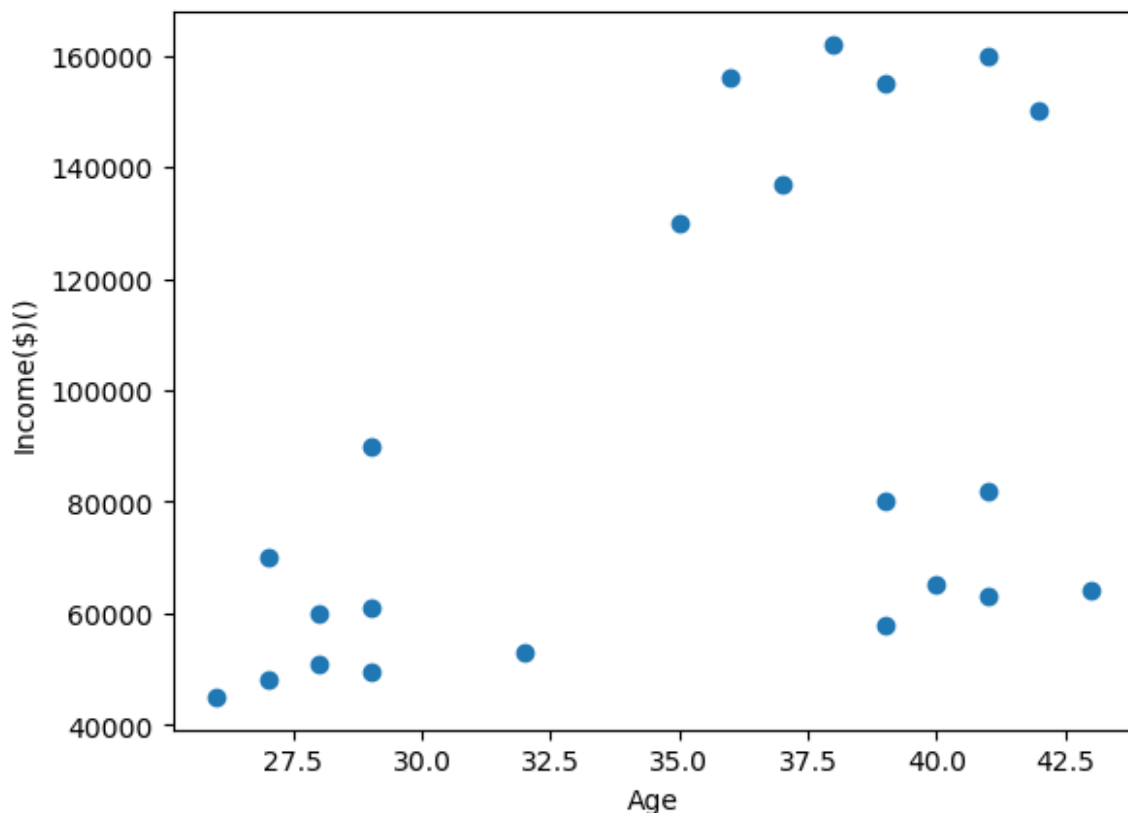


```
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_absolute_error

df = pd.read_csv(r"C:\Users\varun\Downloads\income.csv")
df.head()

    Name  Age  Income($)
0    Rob   27    70000
1 Michael   29    90000
2   Mohan   29    61000
3  Ismail   28    60000
4   Kory   42   150000

import matplotlib.pyplot as plt
plt.scatter(df['Age'], df['Income($)'])
plt.xlabel('Age')
plt.ylabel('Income($)()')
plt.show()
```



```
x = df[['Age']]
y = df['Income($)']
```

```
X_train, X_test, y_train, y_test = train_test_split(x, y,
test_size=0.2, random_state=0)

regressor = LinearRegression()
regressor.fit(X_train, y_train)

LinearRegression()

y_pred = regressor.predict(X_test)

mae = mean_absolute_error(y_test, y_pred)
print("Mean Absolute Error:", mae)

Mean Absolute Error: 24972.685856284945

plt.plot(X_train, regressor.predict(X_train), color='red')
plt.scatter(df['Age'], df['Income($)'])
plt.xlabel('Age')
plt.ylabel('Income($')
plt.show()
```

