

```

#SLR
import pandas as pd
df = pd.read_csv("/Users/shridharmankar/age1.csv")
df.head(10)

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']

from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(x, y, test_size = 0.2, random_state = 0)

from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
regressor.fit(X_train, y_train)

regressor.predict(X_test)

regressor.score(X_test, y_test)
regressor.coef_
regressor.intercept_

import matplotlib.pyplot as plt
plt.plot(X_train, regressor.predict(X_train), color = 'red')
plt.scatter(df['Age'],df['Income'])
plt.xlabel('Age')
plt.ylabel('Income')
plt.show()

#MLR

import pandas as pd
df = pd.read_csv("/Users/shridharmankar/age2.csv")
df.head(6)

```

```
x = df[['Age', 'Degrees']]
```

```
y = df['Income']
```

```
x
```

```
y
```

```
from sklearn.model_selection import train_test_split
```

```
X_train, X_test, y_train, y_test = train_test_split(x,y,test_size=0.4,random_state=10)
```

```
X_train
```

```
X_test
```

```
from sklearn.linear_model import LinearRegression
```

```
clf = LinearRegression()
```

```
clf.fit(X_train, y_train)
```

```
clf.predict(X_test)
```

```
clf.score(X_test, y_test)
```

```
clf.coef_
```

```
clf.intercept_
```

```
clf.predict([[25,2]])
```

```
#LOGISTIC REGRESSION
```

```
import pandas as pd
```

```
df = pd.read_csv("/Users/shridharmankar/job.csv")
```

```
df.head(30)
```

```
from sklearn.model_selection import train_test_split
```

```
X_train, X_test, y_train, y_test =
```

```
train_test_split(df[['Years']],df.result,train_size=0.8,random_state=10)
```

```
from sklearn.linear_model import LogisticRegression  
model = LogisticRegression()
```

```
model.fit(X_train, y_train)
```

```
print(X_test)
```

```
y_predicted = model.predict(X_test)
```

```
y_predicted
```

```
model.score(X_test,y_test)
```