```
import pandas as pd
from sklearn.model selection import train test split
from sklearn.linear model import LinearRegression
from sklearn.neighbors import KNeighborsClassifier
from sklearn.tree import DecisionTreeClassifier
from sklearn.linear model import LogisticRegression
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import mean squared error, r2 score
data= pd.read csv('/content/drive/MyDrive/files2/TSLA.csv')
xv train = data[['High','Low']]
y train = data['Volume']
RFC = RandomForestClassifier(random state=0)
RFC.fit(xv train,y train)
RandomForestClassifier(random state=0)
LR = LogisticRegression(max iter=1000)
LR.fit(xv train,y train)
/usr/local/lib/python3.10/dist-packages/sklearn/linear model/
logistic.py:458: ConvergenceWarning: lbfgs failed to converge
(status=1):
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.
Increase the number of iterations (max iter) or scale the data as
shown in:
    https://scikit-learn.org/stable/modules/preprocessing.html
Please also refer to the documentation for alternative solver options:
https://scikit-learn.org/stable/modules/linear_model.html#logistic-
regression
  n_iter_i = _check optimize result(
LogisticRegression(max iter=1000)
DTC = DecisionTreeClassifier()
DTC.fit(xv train,y train)
DecisionTreeClassifier()
k=3
knn = KNeighborsClassifier(n neighbors=k)
knn.fit(xv train,y train)
KNeighborsClassifier(n neighbors=3)
lr = LinearRegression()
lr.fit(xv train,y train)
```

```
LinearRegression()
# Assuming 'data' is already defined
# xv train = data[['Height','Weight']]
# y train = data['Index']
# Example input (replace with actual input)
high = float(input("Enter high (): "))
low = float(input("Enter low (): "))
# Create a DataFrame from user input, use 'Low' instead of 'low' for
consistency
user data = pd.DataFrame({'High': [high], 'Low': [low]}) # Fixed typo
# Select only the relevant features for prediction
user data for prediction = user data[['High', 'Low']] # Select the
same features used in training
# Get predictions from each model
rfc pred = RFC.predict(user data for prediction) # Use the DataFrame
with correct features
lr pred = LR.predict(user data for prediction)
dtc pred = DTC.predict(user data for prediction)
knn_pred = knn.predict(user_data_for_prediction)
linear pred = lr.predict(user data for prediction)
# Create a DataFrame from the predictions
predictions df = pd.DataFrame({
    'RandomForest': rfc pred,
    'LogisticRegression': lr pred,
    'DecisionTree': dtc pred,
    'KNeighbors': knn pred,
    'LinearRegression': linear pred
})
# Merge predictions with input data
merged output = pd.concat([user data, predictions df], axis=1)
print(merged output)
Enter high (): 5
Enter low (): 3.5
   High Low RandomForest LogisticRegression DecisionTree
KNeighbors \
   5.0 3.5
                 93831500
                                     150977500
                                                    93831500
25699000
   LinearRegression
0 3.173082e+07
```