```
import numpy as np
import pandas as pd
fromsklearn.linear_model import LinearRegression
fromsklearn.model_selection import train_test_split

heights=np.random.normal(170,10,10)
weights=np.random.normal(70,5,10)

dataset=pd.DataFrame({'Height':heights,'Weight':weights})

X_train,X_test,y_train,y_test=train_test_split(dataset['Height'],dataset['Weight'],test_size=0.2,random_state=42)

lr_model=LinearRegression()

lr_model.fit(X_train.values.reshape(-1,1),y_train)
print('ModelCoefficients:',lr_model.coef_)

Y_pred=lr_model.predict(X_test.values.reshape(-1,1))
print('Predictions:',y_pred)
```