```
# Import libraries
Import numpy as np
Import pandas as pd
From sklearn.linear_model import LinearRegression

# Create a sample dataset
# Features: Hours Studied, Hours Slept
# Target: Exam Score
Data = {
   ‘Hours_Studied’: [10, 9, 8, 7, 6, 5, 4, 3, 2, 1],
   ‘Hours_Slept’:   [7, 8, 6, 5, 7, 8, 6, 5, 4, 3],
   ‘Exam_Score’:    [95, 90, 85, 80, 75, 70, 65, 60, 55, 50]
}

# Convert to DataFrame
Df = pd.DataFrame(data)

# Define independent variables (X) and dependent variable (y)
X = df[[‘Hours_Studied’, ‘Hours_Slept’]]
Y = df[‘Exam_Score’]

# Initialize and train the model
Model = LinearRegression()
Model.fit(X, y)
```

```
# Print coefficients
Print("Intercept:", model.intercept_)
Print("Coefficients:", model.coef_)

# Make predictions
New_data = pd.DataFrame({'Hours_Studied': [6, 9], 'Hours_Slept': [6, 8]})
Predictions = model.predict(new_data)

# Print predictions
Print("\nPredictions for new data:")
Print(new_data)
Print("Predicted Exam Scores:", predictions)
```

OUTPUT :

```
Intercept: 29.999999999999993
Coefficients: [5.        2.5       ]

Predictions for new data:
   Hours_Studied  Hours_Slept
0          6          6
1          9          8
Predicted Exam Scores: [75.  95.]
```