

```

import numpy as np

# Define the dataset as a NumPy array
data = np.array([
    [0.0, 0.0, 0.0],
    [0.5, 1.5, 23.4],
    [1.2, 2.3, 45.6],
    [1.8, 3.7, 12.1],
    [2.4, 4.2, 78.9],
    [2.9, 5.1, 34.5],
    [3.5, 6.4, 56.7],
    [4.1, 7.8, 67.8],
    [4.7, 8.5, 89.0],
    [5.2, 9.1, 12.3],
    [5.8, 1.0, 45.6],
    [6.3, 2.4, 78.9],
    [6.9, 3.1, 34.5],
    [7.4, 4.6, 56.7],
    [8.0, 5.2, 67.8],
    [8.6, 6.8, 89.0],
    [9.1, 7.3, 12.3],
    [9.7, 8.9, 45.6],
    [10.0, 9.0, 78.9],
    [10.5, 0.5, 34.5]
])

# Separate the inputs (a and b) and the output (value)
X = data[:, :2] # Inputs a and b
y = data[:, 2]  # Output value

from google.colab import drive
drive.mount('/content/drive')

```

## New Section

```

# Import linear regression model
from sklearn.linear_model import LinearRegression

# Fit the model
model = LinearRegression()
model.fit(X, y)

# Function to predict the value based on input a and b
def predict_value(a, b):
    return model.predict([[a, b]])[0]

# Test the function with an example

```

```
predicted_value = predict_value(1.2, 2.3)
print(f"Predicted value for (a=1.2, b=2.3): {predicted_value}")
```

```
Predicted value for (a=1.2, b=2.3): 34.701583929966986
```