Task 2

Develop a linear regression model to predict house price based on features such as the number of rooms, location, size and other relevant factors. Collect a suitable dataset from Kaggle, preprocess it, and train the model to make accurate predictions.

Colab Link:

https://colab.research.google.com/drive/1Z_zmhJ-FJpkZ12XzdwsRkJys4xSo4jUA?usp=sharing

Code:

```
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_absolute_error

df = pd.read_excel("/content/housing.xlsx")

df = df.dropna()

X = df[["median_income", "housing_median_age", "total_rooms"]]
y = df["median_house_value"]

X_train, X_test, y_train, y_test = train_test_split(X, y,
test_size=0.2)

model = LinearRegression()
model.fit(X_train, y_train)

predictions = model.predict(X_test)

print("Mean Error:", mean_absolute_error(y_test, predictions))
```

Output:

```
Mean Error: 61426.118730462615
```