```
import pandas as pd
from sklearn.linear model import LinearRegression
from sklearn.preprocessing import LabelEncoder
house=pd.read csv("/content/house prices.csv")
house.head()
{"summary":"{\n \"name\": \"house\",\n \"rows\": 1000,\n
\"fields\": [\n {\n \"column\": \"area\",\n
\"properties\": {\n \"dtype\": \"number\",\n
                                                          \"std\":
60,\n \"min\": 40,\n \"max\": 249,\n \"num_unique_values\": 208,\n \"samples\": [\n 158,\n 191,\n 121\n ],\n \"semantic_type\": \"\",\n \"description\": \"\"\n }\n {\n \"column\":
                                                                   158,\n
\"rooms\",\n \"properties\": {\n \"std\": 1,\n \"min\": 1,\n
                                              \"dtype\": \"number\",\n
                                            \"max\": 5,\n
\"num_unique_values\": 5,\n \"samples\": [\n
1,\n 5\n ],\n \"semantic_type\"
                                    \"semantic_type\": \"\",\n
\"description\": \"\"\n }\n
                                      },\n {\n \"column\":
\"age\",\n \"properties\": {\n \"dtype\": \"nu
\"std\": 14,\n \"min\": 0,\n \"max\": 49,\n
                                              \"dtype\": \"number\",\n
\"num_unique_values\": 50,\n
47,\n 9\n ],\n
                                      \"samples\": [\n
                                     \"semantic type\": \"\",\n
\"description\": \"\"\n }\n
                                     },\n {\n \"column\":
\"location\",\n \"properties\": {\n \"dtype\":
\"category\",\n \"num_unique_values\": 4,\n \"samples\":
[\n \"Downtown\",\n \"Countryside\",\n
}\
     }\n ]\n}","type":"dataframe","variable name":"house"}
house.isnull().sum()
            0
area
            0
rooms
            0
age
location
price
dtype: int64
le=LabelEncoder()
house['location']=le.fit transform(house['location'])
int data=house[['area','rooms','age','location']]
```

```
dep data=house['price']
LR=LinearRegression()
LR.fit(int_data,dep_data)
LinearRegression()
from google.colab import drive
drive.mount('/content/drive')
Mounted at /content/drive
import pickle
with open('house_prices.pkl','wb') as f:
  pickle.dump(LR,f)
LR.predict([[32,1,28,880]])
/usr/local/lib/python3.11/dist-packages/sklearn/utils/
validation.py:2739: UserWarning: X does not have valid feature names,
but LinearRegression was fitted with feature names
 warnings.warn(
array([14556470.30097486])
```