```
import pandas as pd
import numpy as np
from sklearn.linear model import LinearRegression
dia=pd.read excel("/content/drive/MyDrive/diabetes.xlsx")
dia.head()
{"summary":"{\n \"name\": \"dia\",\n \"rows\": 768,\n \"fields\":
[\n {\n \"column\": \"preg\",\n \"properties\": {\n
\"dtype\": \"number\",\n \"std\": 3,\n \"min\": 0,\n \"max\": 17,\n \"num_unique_values\": 17,\n \"samples \\ [\n 6,\n 1,\n 3\n ],\n \"semantic_type\": \"\",\n \"description\": \"\"\n }\\
                                                        \"samples\":
\"max\": 199,\n \"num_unique_values\": 136,\n \"samples\": [\n 151,\n 101,\n 112\n ],\n \"semantic_type\": \"\",\n \"description\": \"\"\n
},\n {\n \"column\": \"pres\",\n \"properties\":
                                          \"num_unique_values\":
\"min\": 0,\n \"max\": 122,\n
47,\n \"samples\": [\n 86,\n 85\n ],\n \"semantic_type\": \"\",\n
                                                    46,\n
\"num_unique_values\": 51,\n \"samples\": [\n 7,\n
12,\n 48\n ],\n \"semantic_type\": \"\",\n
\"description\": \"\"\n }\n {\n \"column\":
\"insu\",\n \"properties\": {\n \"dtype\": \"number\",\n \"std\": 115,\n \"min\": 0,\n \"max\": 846,\n
67.1,\n \"num_unique_values\": 248,\n \"samples\": [\n 19.9,\n 31.0,\n 38.1\n ],\n \"semantic_type\": \"\",\n \"description\": \"\"\n }\n \\n \\"column\": \"pedi\",\n \"properties\": \\n \\"dtype\": \"\"\" \\"
\"dtype\": \"number\",\n \"std\": 0.33132859501277484,\n
\"min\": 0.078,\n \"max\": 2.42,\n
\mbox{"num\_unique\_values": 517,\n} \mbox{"samples": [\n 1.731,\]
\"semantic_type\": \"\",\n \"description\": \"\"\n
```

```
{\n \"column\": \"class\",\n \"properties\": {\
    },\n
        \"dtype\": \"number\",\n \"std\": 0,\n
                                                            \"min\":
n
0,\n
           \"max\": 1,\n
                               \"num unique_values\": 2,\n
\"samples\": [\n
                       0,\n
                                       1\n
\"semantic_type\": \"\",\n
                                \"description\": \"\"\n
                                                             }\
    }\n ]\n}","type":"dataframe","variable_name":"dia"}
dia.isnull().sum()
        0
preg
plas
        0
pres
        0
        0
skin
insu
        0
mass
        0
pedi
        0
age
class
dtype: int64
ind=dia[['age','mass','insu','plas']]
dep=dia['class']
LR=LinearRegression()
LR.fit(ind,dep)
LinearRegression()
age=int(input("Enter the age: "))
mass=int(input("Enter the mass: "))
insulin=int(input("Enter the insulin level: "))
plasma=int(input("Enter the plasma level: "))
pred=LR.predict([[age,mass,insulin,plasma]])
print(pred)
Enter the age: 34
Enter the mass: 33
Enter the insulin level: 120
Enter the plasma level: 33
[-0.16647895]
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:493:
UserWarning: X does not have valid feature names, but LinearRegression
was fitted with feature names
 warnings.warn(
```