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```
import pandas as pd
import numpy as np
from sklearn.linear_model import LogisticRegression
```

```
[ ] dia =pd.read_excel('/content/diabetes (1).xlsx')
```

Double-click (or enter) to edit

```
[ ] dia.head()
```

	preg	plas	pres	skin	insu	mass	pedi	age	class
0	6	148	72	35	0	33.6	0.627	50	tested_positive
1	1	85	66	29	0	26.6	0.351	31	tested_negative
2	8	183	64	0	0	23.3	0.672	32	tested_positive
3	1	89	66	23	94	28.1	0.167	21	tested_negative
4	0	137	40	35	168	43.1	2.288	33	tested_positive

Next steps: Generate code with dia | View recommended plots | New interactive sheet

```
[ ] dia.isnull().sum()
```

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Files

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```
dia.isnull().sum()
```

	0
preg	0
plas	0
pres	0
skin	0
insu	0
mass	0
pedi	0
age	0
class	0

dtype: int64

```
[ ] logic=LogisticRegression()
```

```
[ ] aa=dia[['preg','plas','pres','skin','insu','mass','pedi','age']]
```

```
[ ] bb=dia['class']
```


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Files

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```
[ ] logic=LogisticRegression()

[ ] aa=dia[['preg','plas','pres','skin','insu','mass','pedi','age']]

[ ] bb=dia['class']

logic.fit(aa,bb)
```

```
/usr/local/lib/python3.11/dist-packages/sklearn/linear_model/_logistic.py:465: ConvergenceWarning: lbfgs failed to converge (status=1):
STOP: TOTAL NO. OF ITERATIONS REACHED LIMIT.

Increase the number of iterations (max_iter) or scale the data as shown in:
    https://scikit-learn.org/stable/modules/preprocessing.html
Please also refer to the documentation for alternative solver options:
    https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression
  n_iter_i = _check_optimize_result(
```

LogisticRegression

LogisticRegression()

```
preg=int(input("enter preg"))
plas=int(input("enter plas"))
pres=int(input("enter pres"))
skin=int(input("enter skin"))
insu=float(input("enter insu"))
mass=float(input("enter mass"))
pedi=float(input("enter pedi"))
```

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Files

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```
LogisticRegression()
```

```
preg=int(input("enter preg"))
plas=int(input("enter plas"))
pres=int(input("enter pres"))
skin=int(input("enter skin"))
insu=float(input("enter insu"))
mass=float(input("enter mass"))
pedi=float(input("enter pedi"))
age=int(input("enter age"))
ams= logic.predict([[preg,plas,pres,skin,insu,mass,pedi,age]])
print(ams)
```

```
enter preg6
enter plas148
enter pres72
enter skin0
enter insu33.6
enter mass35
enter pedi0.627
enter age50
['tested_positive']
/usr/local/lib/python3.11/dist-packages/sklearn/utils/validation.py:2739: UserWarning: X does not have valid feature names, but LogisticRegression was fi
  warnings.warn(
```

[ ] Start coding or generate with AI.

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