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

covid =pd.read_csv('/content/covid-19 symptoms dataset.csv')
covid.head()
```

{"summary":"{\n \"name\": \"covid\",\n \"rows\": 2575,\n \"fields\": [\n   {\n   \"column\": \"fever\",\n \"properties\": {\n   \"dtype\": \"number\",\n   \"std\": 1,\n   \"min\": 98,\n   \"max\": 104,\n \"num_unique_values\": 7,\n   \"samples\": [\n   102,\n 104,\n   103\n   ],\n   \"semantic_type\": \"\",\n \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"bodyPain\",\n   \"properties\": {\n   \"dtype\": \"number\",\n   \"std\": 0,\n   \"min\": 0,\n \"max\": 1,\n   \"num_unique_values\": 2,\n   \"samples\": [\n   1,\n   0\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n \"column\": \"age\",\n   \"properties\": {\n   \"dtype\": \"number\",\n   \"std\": 29,\n   \"min\": 1,\n \"max\": 100,\n   \"num_unique_values\": 100,\n \"samples\": [\n   76,\n   92\n   ],\n \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"runnyNose\",\n \"properties\": {\n   \"dtype\": \"number\",\n   \"std\": 0,\n   \"min\": 0,\n   \"max\": 1,\n \"num_unique_values\": 2,\n   \"samples\": [\n   1,\n 0\n   ],\n   \"semantic_type\": \"\",\n \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"diffBreath\",\n   \"properties\": {\n   \"dtype\": \"number\",\n   \"std\": 0,\n   \"min\": -1,\n \"max\": 1,\n   \"num_unique_values\": 3,\n   \"samples\": [\n   -1,\n   0\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n \"column\": \"infectionProb\",\n   \"properties\": {\n \"dtype\": \"number\",\n   \"std\": 0,\n   \"min\": 0,\n \"max\": 1,\n   \"num_unique_values\": 2,\n   \"samples\": [\n   1,\n   0\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   }\n]\n}","type":"dataframe","variable_name":"covid"}

```python
covid.isnull().sum()
```

```
fever           0
bodyPain        0
age             0
runnyNose       0
diffBreath      0
```

```
infectionProb    0
dtype: int64

a=covid[['fever','bodyPain','runnyNose','diffBreath']]
b=covid['infectionProb']

logr=LogisticRegression()

logr.fit(a,b)

LogisticRegression()

fever=int(input("Enter the fever Level :"))
bodyPain= int(input("Enter the bodyPain level :"))
runnyNose=int(input("Enter the runnyNose level :"))
diffBreath=int(input("Enter the diffBreath level :"))
pred=logr.predict([[fever,runnyNose,bodyPain,diffBreath]])
print(pred)


Enter the fever Level :101
Enter the bodyPain level :1
Enter the runnyNose level :0
Enter the diffBreath level :1
[0]

/usr/local/lib/python3.11/dist-packages/sklearn/utils/
validation.py:2739: UserWarning: X does not have valid feature names,
but LogisticRegression was fitted with feature names
  warnings.warn(

logr.score(a,b)

0.5176699029126214

from sklearn.metrics import accuracy_score
pval=logr.predict(a)
accuracy_score(b,pval)

0.5176699029126214
```