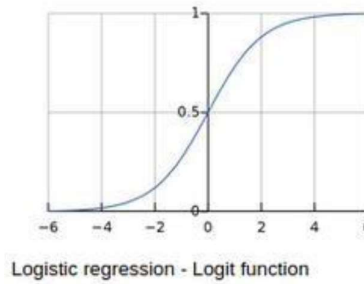


Experiment 6: Write a Python program to implement Logistic Regression and plot the graphs.

Theory:

1. Logistic Regression

It's a classification algorithm that is used where the target variable is of categorical nature. The main objective behind Logistic Regression is to determine the relationship between features and the probability of a particular outcome.



Implementation:

1. `sklearn.linear_model.LogisticRegression`

Syntax:

```
class sklearn.linear_model.LogisticRegression(multi_class='auto')
```

Creates Logistic Regression (aka logit, MaxEnt) classifier. In the multiclass case, the training algorithm uses the one-vs-rest (OvR) scheme

About Dataset:

(Describe your dataset)

Conclusion: In this way, we understood the working of the logistic regression algorithm for classification task. We also plotted the sigmoid function using the probabilities.