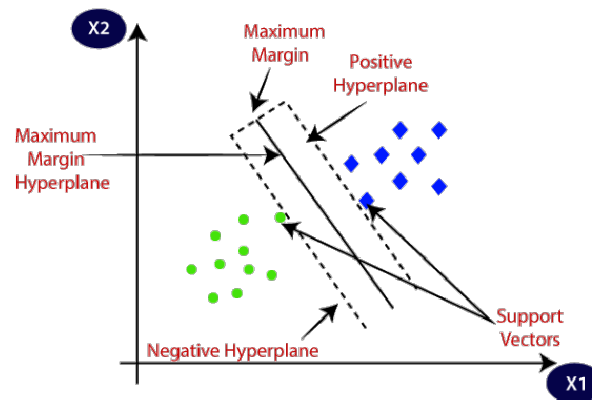**Experiment 7: Build Support Vector Machine (SVM) model**

<u>**Theory:**</u>

1. **Support Vector Machine (SVM)**

   Support vector machines (SVMs) are a set of related supervised learning methods used for classification and regression. Given a set of training examples, each marked as belonging to one of two categories, an SVM training algorithm builds a model that predicts whether a new example falls into one category or the other.

<u>**Implementation:**</u>

1. **sklearn.svm.SVC**

Syntax:

class sklearn.svm.**SVC**(*kernel='rbf'*, *degree=3*)

   Support Vector Classification.

<u>**About Dataset:**</u>

   (Describe your dataset)

Conclusion: In this way, we understood and implemented the SVM algorithm and tried to plot the maximum separating hyperplane using linear classifier.