Assignment 2 Report
B.SAI DEEP 2012CS10223

Q1

- **CVX**
  - **Linear**
    - **Accuracy** : 98.4596%
    - **Support Vectors :** 502
  - **Gaussian**
    - **Accuracy** : 98.7163 %
    - **Support Vectors :** 912

- **LibSVM accuracy**
  - **Linear** : 97.8177 %
  - **Gaussian :** 98.7163 %

- **Comparison of LibSVM & CVX :**
  - Accuracies are almost identical.
  - LibSVM is a lot faster.

Q2

a) **Done**

b) **Stopping Criteria**

If change in error term is less than 0.0001 or number of iterations is greater than 10*11982

c)

- **Accuracy** : 96.9254 %
- **Training Time :** 55.024190 seconds

d)

- **Accuracy** : 80.0023 %
- **Training Time :** 151 seconds

10 output units are needed in this case

Much more time is taken than in the previous case.