**Experiment 1:**

Implement and demonstrate Find-S algorithm for finding the most specific hypothesis based on a given set of training data samples. Read the training data from a .CSV file.

**Algorithm**

1. Start with the most specific hypothesis.   
   **h = {ϕ, ϕ, ϕ, ϕ, ϕ, ϕ}**
2. Take the next example and if it is negative, then no changes occur to the hypothesis.
3. If the example is positive and we find that our initial hypothesis is too specific then we update our current hypothesis to a general condition.
4. Keep repeating the above steps till all the training examples are complete.
5. After we have completed all the training examples we will have the final hypothesis when can use to classify the new examples.
6. Initialize h to the most specific hypothesis in H

2. For each positive training instance x

For each attribute constraint a, in h

If the constraint a, is satisfied by x

Then do nothing

Else replace a, in h by the next more general constraint that is satisfied by x

3. Output hypothesis h