

**Assignment-1**

1. Define learning program for a given problem. Describe the following problems with respect to Tasks, Performance and Experience:
  - a. Checkers Learning Problems
  - b. Handwritten Recognition Problem
  - c. Robot Driving Learning Problem
2. List and Explain Find-S Algorithm with example.
3. Explain Version space and Candidate Elimination Algorithm
4. Consider the following data and apply candidate elimination algorithm. Show the individual steps.

<i>Size</i>	<i>Color</i>	<i>Shape</i>	<i>Class/Label</i>
small	blue	circle	Yes
big	red	circle	No
small	red	triangle	No
small	red	circle	Yes
big	blue	circle	No

5. Briefly explain inductive bias.