**Roll No:- 124**

**Name:- Shirsath Uday Raju**

**Assignment NO:-1**

**Assignment Name:- Implement The Find-S Inductive Learning Algorithm.**

import pandas as pd  
import numpy as np  
  
*# to read the data in the csv file*data = pd.read\_csv("pract1.csv")  
print(data, "n")  
  
*# making an array of all the attributes*d = np.array(data)[:, :-1]  
print("n The attributes are: ", d)  
  
*# segragating the target that has positive and negative examples*target = np.array(data)[:, -1]  
print("n The target is: ", target)  
  
  
*# training function to implement find-s algorithm*def train(c, t):  
 for i, val in enumerate(t):  
 if val == "Yes":  
 specific\_hypothesis = c[i].copy()  
 break  
  
 for i, val in enumerate(c):  
 if t[i] == "Yes":  
 for x in range(len(specific\_hypothesis)):  
 if val[x] != specific\_hypothesis[x]:  
 specific\_hypothesis[x] = '?'  
 else:  
 pass  
  
 return specific\_hypothesis  
  
  
*# obtaining the final hypothesis*print("n The final hypothesis is:", train(d, target))

**output**

