Program 3

import numpy as np import pandas as pd

```
data = pd.read_csv("C:\\Users\\sdmit\\OneDrive\\Desktop\\ML-CSV\\ws.csv",header=None)
concepts = np.array(data.iloc[:,0:-1])
print("\nInstances are:\n",concepts)
target = np.array(data.iloc[:,-1])
print("\nTarget Values are: ",target)
def learn(concepts, target):
specific_h = concepts[0].copy()
print("\nInitialization of specific_h and general_h")
print("\nSpecific Boundary: ",specific_h)
general_h = [["?" for i in range(len(specific_h))]
for i, h in enumerate(concepts):
    print("\nInstance",i+1, "is ", h)
    if target[i] == "Yes":
        print("Instance is Positive ")
        for x in range(len(specific_h)):
        if h[x]!= specific_h[x]:
            specific_h[x]:
            specific_h[x]:
            general_h[x][x] = "?

    if target[i] == "No":
        print("Instance is Negative ")
        for x in range(len(specific_h)):
        if h[x]!= specific_h[x]:
            general_h[x][x] = specific_h[x]:
            seneral_h[x][x] = specific_h
```