**4.For a given set of training data examples stored in a .CSV file, implement and demonstrate the Find-S algorithm to output a description of the set of all hypotheses consistent with the training examples.**

import pandas as pd

def find\_s\_algorithm(file\_path):

data = pd.read\_csv(r"C:\Users\rrce\Downloads\training\_data.csv")

print("Training data:")

print(data)

attributes = data.columns[:-1]

class\_label = data.columns[-1]

hypothesis = ['?' for \_ in attributes]

for index, row in data.iterrows():

if row[class\_label] == 'Yes':

for i, value in enumerate(row[attributes]):

if hypothesis[i] == '?' or hypothesis[i] == value:

hypothesis[i] = value

else:

hypothesis[i] = '?'

return hypothesis

file\_path = 'training\_data.csv'

hypothesis = find\_s\_algorithm(file\_path)

print("\nThe final hypothesis is:", hypothesis)