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#1 - Read in the CSV file “ML_HW_Data_FisherIris.csv ” into a matrix named as “Iris”. Please do NOT output the whole matrix in our answer.
import pandas as pd
import numpy as np
Iris = pd.read_csv("C:/Users/pragy/Downloads/ML_HW_Data_FisherIris.csv",header=None, delimiter="," )

#2 - Display total number of rows and total number of columns of the matrix “Iris”.

row,columns = Iris.shape

print("Rows:", row)
print("Columns:", columns)

#3. Display all the row numbers (i.e. record numbers ) that have the 5th column less than 0.
Row_Numbers = Iris[Iris[4] <0].index
print("Row Numbers:", Row_Numbers)

#4. Remove the rows with the 5th column less than 0 from the “Iris” matrix. Please do NOT output the whole resulting matrix in our answer.
Iris = Iris.drop(Iris[Iris[4]<0].index)

#5. Display total number of rows and total number of columns of the “Iris” matrix again.

row,columns = Iris.shape

print("Row:", row)
print("Columns:", columns)

#6. Copy the first 4 columns in the new “Iris” matrix into a new matrix “X”. Please do NOT output the whole resulting matrix in our answer
X = Iris.iloc[:, :4]

#7. Copy the 5th columns in the new “Iris” matrix
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30 into a new variable (or matrix) “Y”. Please do NOT
   output the whole resulting matrix in our answer.
31
32 Y = Iris.iloc[:, 4:]
33
34 #8. Display the maximum value and the minimum value
   of EACH column in “X”.
35
36 Xminmax = X.agg([min, max])
37 print(Xminmax)
38
39 #9. Display total number of elements (i.e. items) in
   the third column of the matrix “X” that are greater
   than 36.
40
41 totalitems = len(X[(X[2]>36)])
42 print("Total no of Elements in the third column > 36
    = ", totalitems)
43
```