**ALGORITHM :**

1. Start
2. Import all the required libraries
3. Read the csv file dataframe : dataset1.csv in dataset and dataset2.csv in dataset2
4. Print the head and description of the dataset
5. Print the null values.
6. Split the data into x and y based on the column’s data.
7. Divide the data into test and training data in 20% and 80% of total data.
8. Print the train and training data.
9. Now carry out following comparisons:
10. values in column Temperature LL of dataset <= 20

(store the corresponding rows data t1clas)

1. values in column Temperature UL of t1clas >= 20

(store the corresponding rows data in tclas)

1. values in column Humidity LL of tclas <= 97

(store the corresponding rows data h1tclas)

1. values in column Humidity UL of h1tclas >= 20

(store the corresponding rows data in htclas)

1. print htclas data
2. Now we left merge the two datasets (left merge : dataset+dataset2 ) and store the merged dataset in merged.
3. Now carry out following comparisons:

a. values in column Temperature LL of merged <= 20

(store the corresponding rows data t2clas)

1. values in column Temperature UL of t2clas >= 20

(store the corresponding rows data in t3clas)

1. values in column Humidity LL of t3clas <= 97

(store the corresponding rows data h2tclas)

1. values in column Humidity UL of h2tclas >= 20

(store the corresponding rows data in h0tclas)

1. Print h0clas
2. Read the data stored from the sensors in csv file dataframe : 1.csv in df3 and 2.csv in df4
3. Store the value of 3rd row in field1 column of df3 dataframe in a
4. Store the value of 3rd row in field2 column of df4 dataframe in b
5. Now carry out following comparisons:
6. values in column Temperature LL of dataset <= a

(store the corresponding rows data t10clas)

1. values in column Temperature UL of t10clas >= a

(store the corresponding rows data in t0clas)

1. values in column Humidity LL of t0clas <= b

(store the corresponding rows data h1t0clas)

1. values in column Humidity UL of h1t0clas >= b

(store the corresponding rows data in ht0clas)

1. print ht0clas data
2. Now we left merge the two datasets (left merge : dataset+dataset2 ) and store the merged dataset in merged.
3. Now carry out following comparisons:
4. values in column Temperature LL of merged <= a

(store the corresponding rows data t20clas)

1. values in column Temperature UL of t20clas >= a

(store the corresponding rows data in t30clas)

1. values in column Humidity LL of t30clas <= b

(store the corresponding rows data h2t0clas)

1. values in column Humidity UL of h2t0clas >= 20

(store the corresponding rows data in h0t0clas)

1. Print h0t0clas
2. End