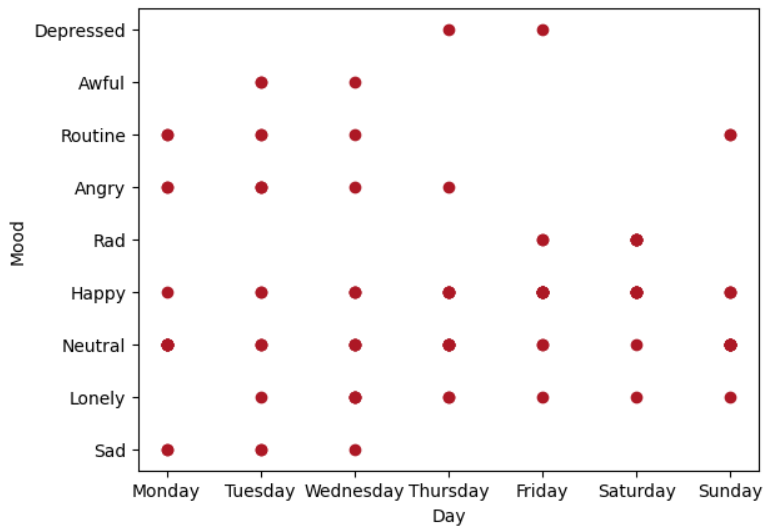
**MoodScriber Data Challenge’24 Report**

**Dataset:**



Our dataset has 105 rows 4 columns

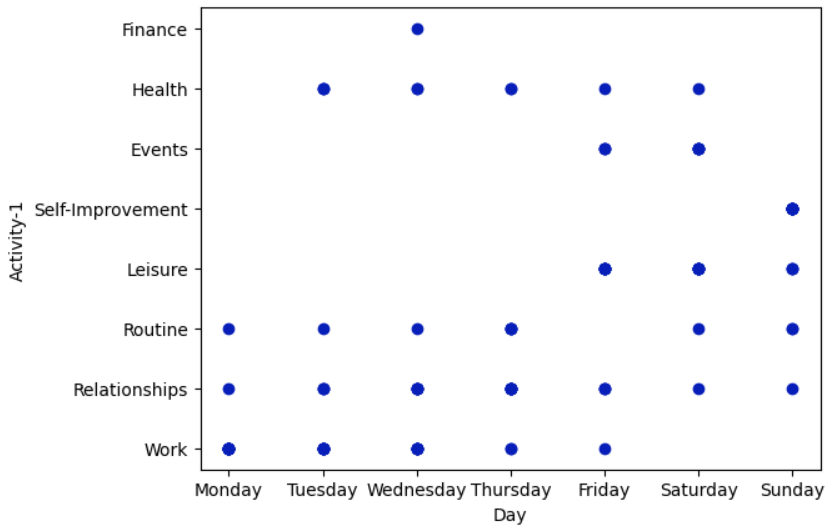
**Graph Plot between Day vs Mood**



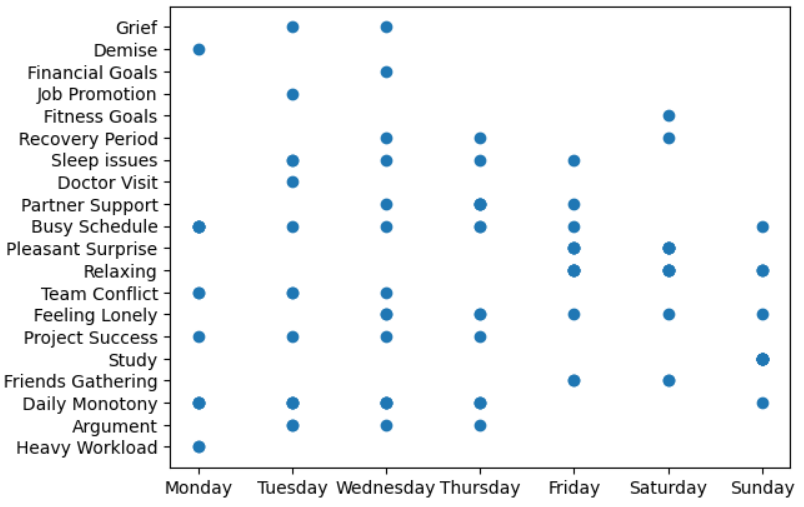
**Graph Plot between Mood vs Activity-1**



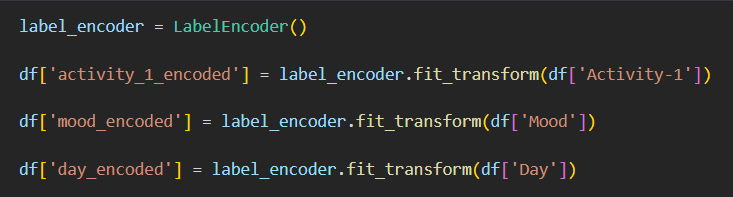
**Graph Plot between Day vs Activity-1**



**Graph Plot between Day vs Activity-2**

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To train the data, I first use label hot encoding to convert the string data values to numeric values.

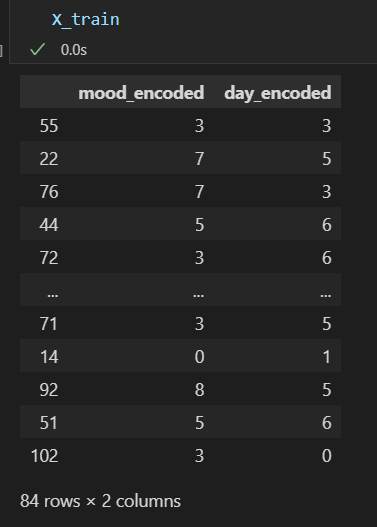
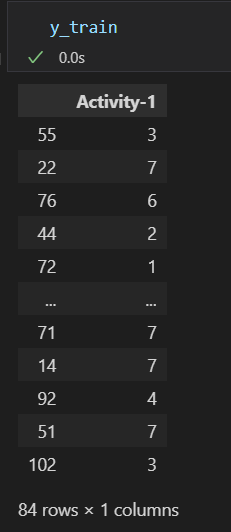


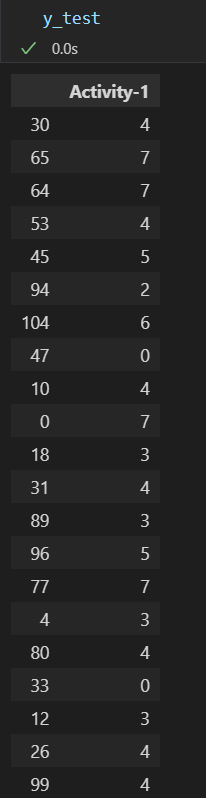
Next, I use the split train test. Here, I'm estimating an activity that depends on the day's and the mood's variables, respectively.

I use Sklearn library for train test split for splitting data

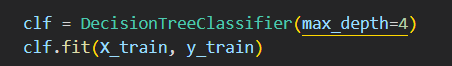
Training data = 0.8

Testing data = 0.2

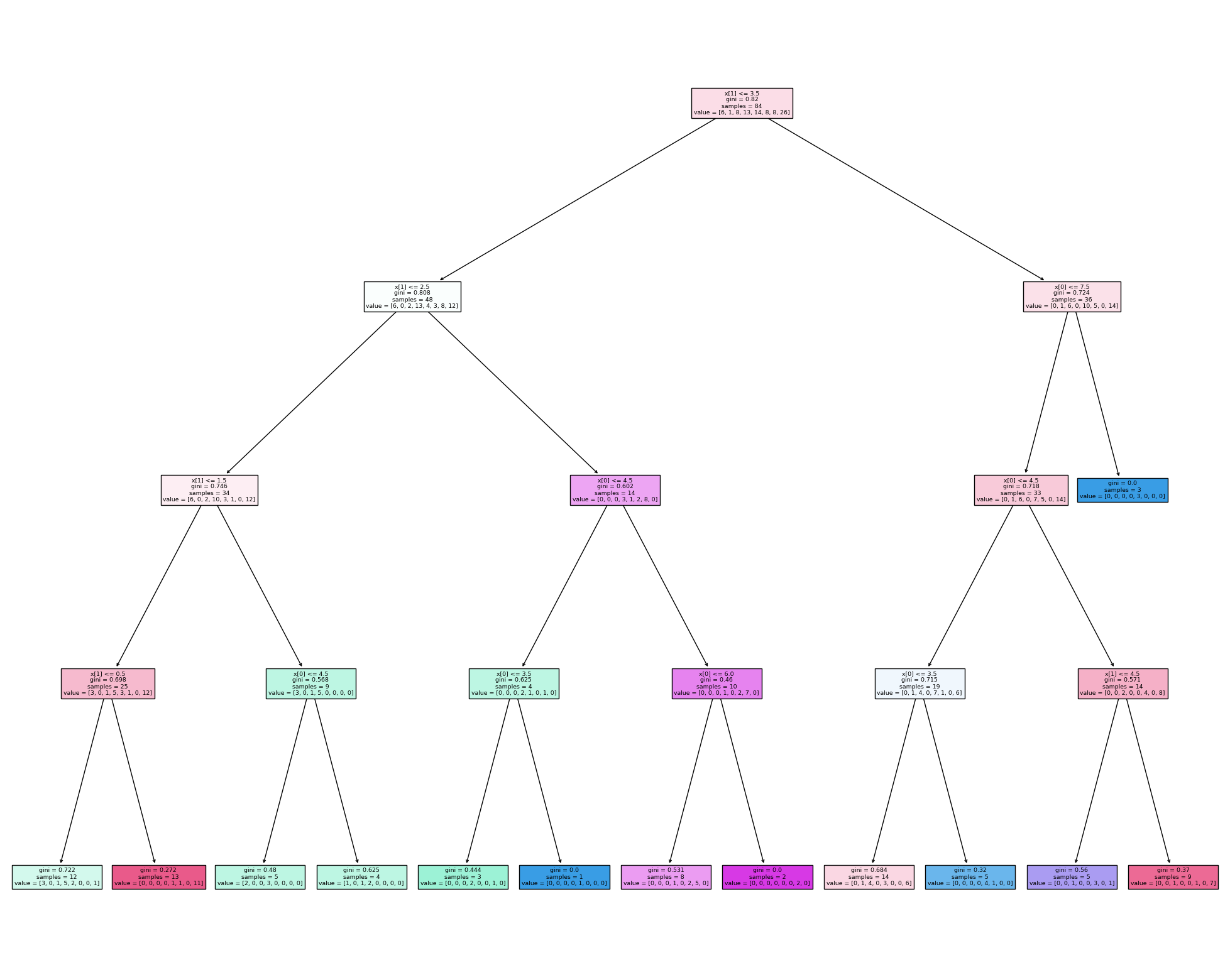
 

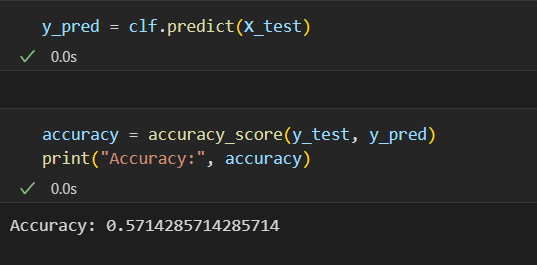
Then I use the Decision Tree Algorithm with a max-depth of 4 to estimate the activity



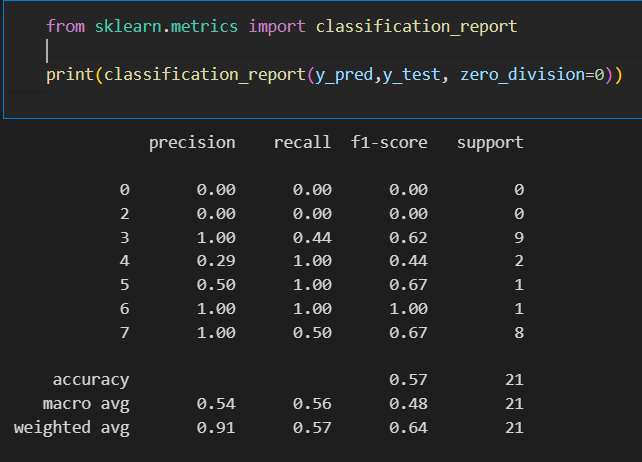
I pass the training data to an algorithm and then build the Decision Tree



Then after training, I check for validation using the test dataset

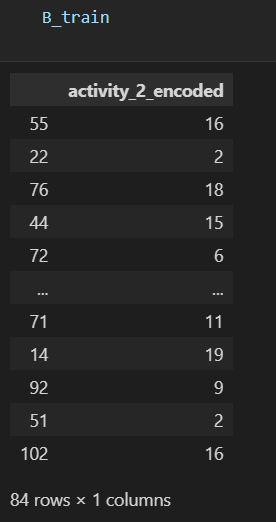


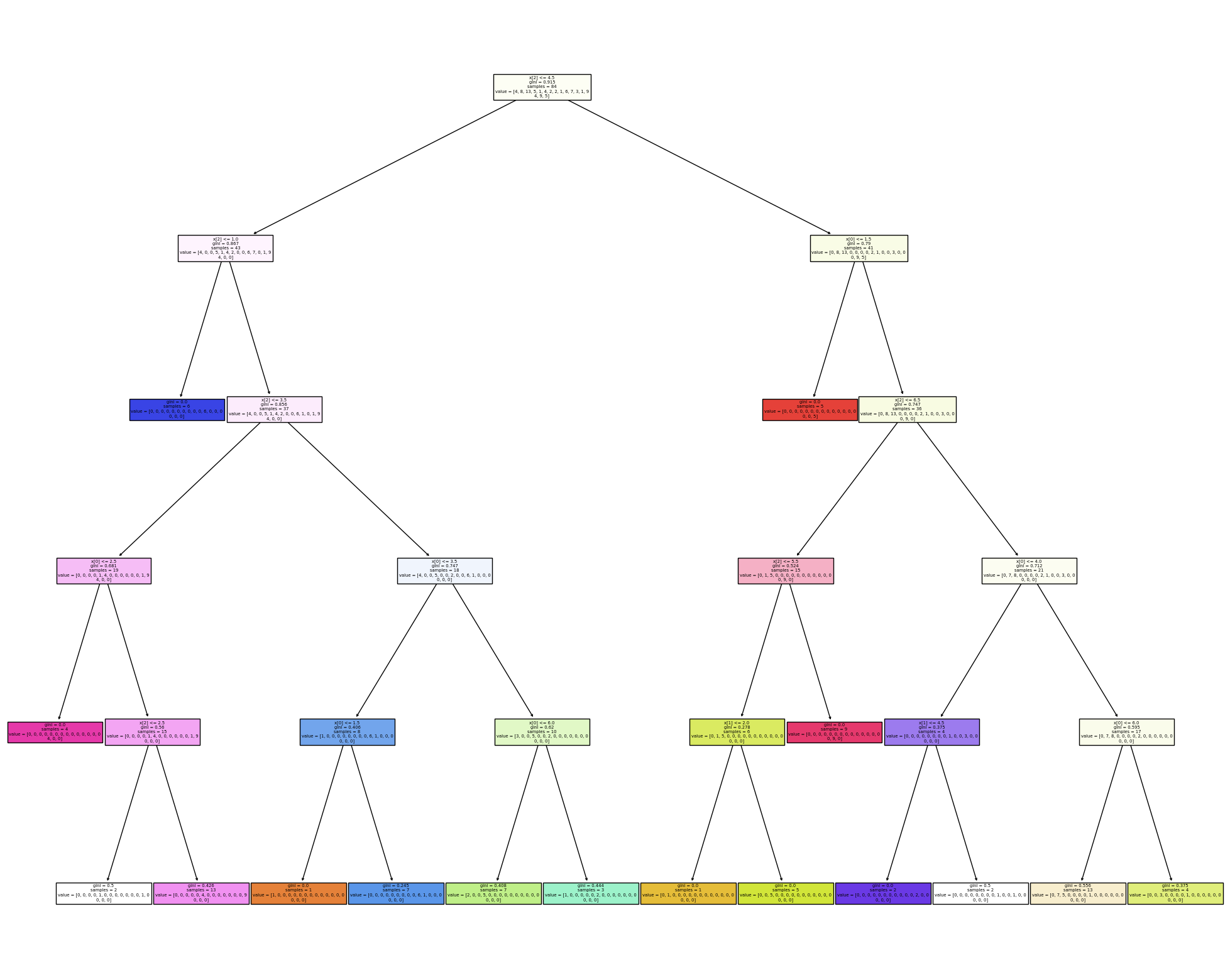
This is the resultant Accuracy of my model



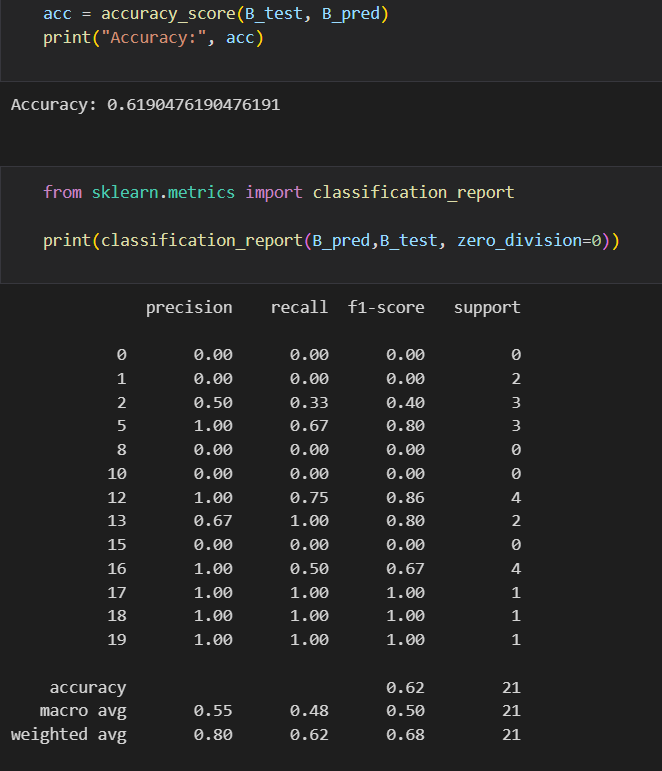
In continuing this, I use the Day, Mood, and Activity-1 to estimate the Activity-2

Prepare the train test Dataset then train with the Decision Tree classifier then test the data and predict the activity-2 of a person on each day.



After testing with the input data, I estimate the accuracy of my model was 62%



**References**:

**Code:** [**CLICK\_HERE**](https://github.com/varun1455/MoodScriber/blob/main/t1.ipynb)

**Dataset:** [**CLICK\_HERE**](https://github.com/varun1455/MoodScriber/blob/main/Input.xlsx)

**By- Varun Jain**