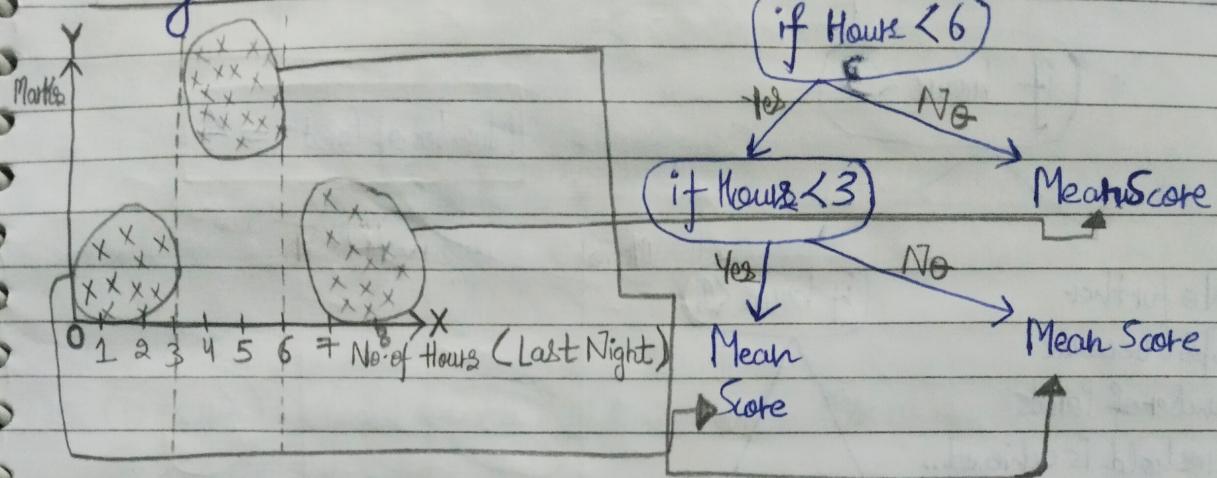
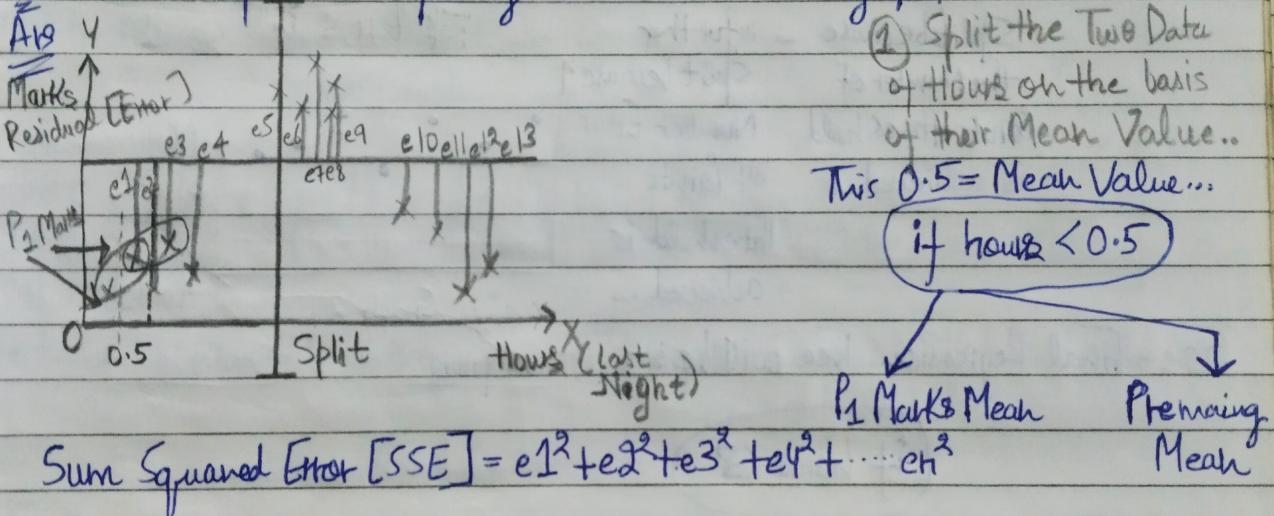


Date _____

Regression Trees

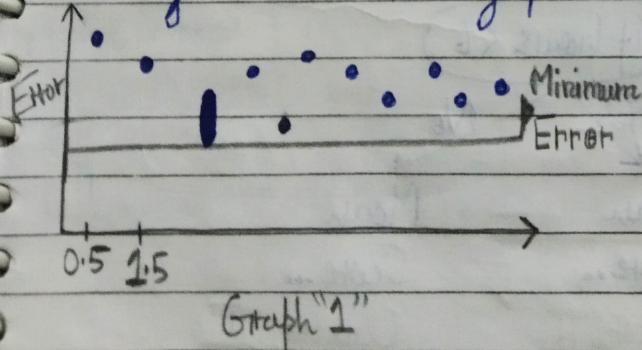


Q How do we find that Splitting Criteria within the graph?



$$\text{Sum Squared Error [SSE]} = e_1^2 + e_2^2 + e_3^2 + e_4^2 + \dots + e_{13}^2$$

Plotting this SSE in the graph:-



Again the same process:-

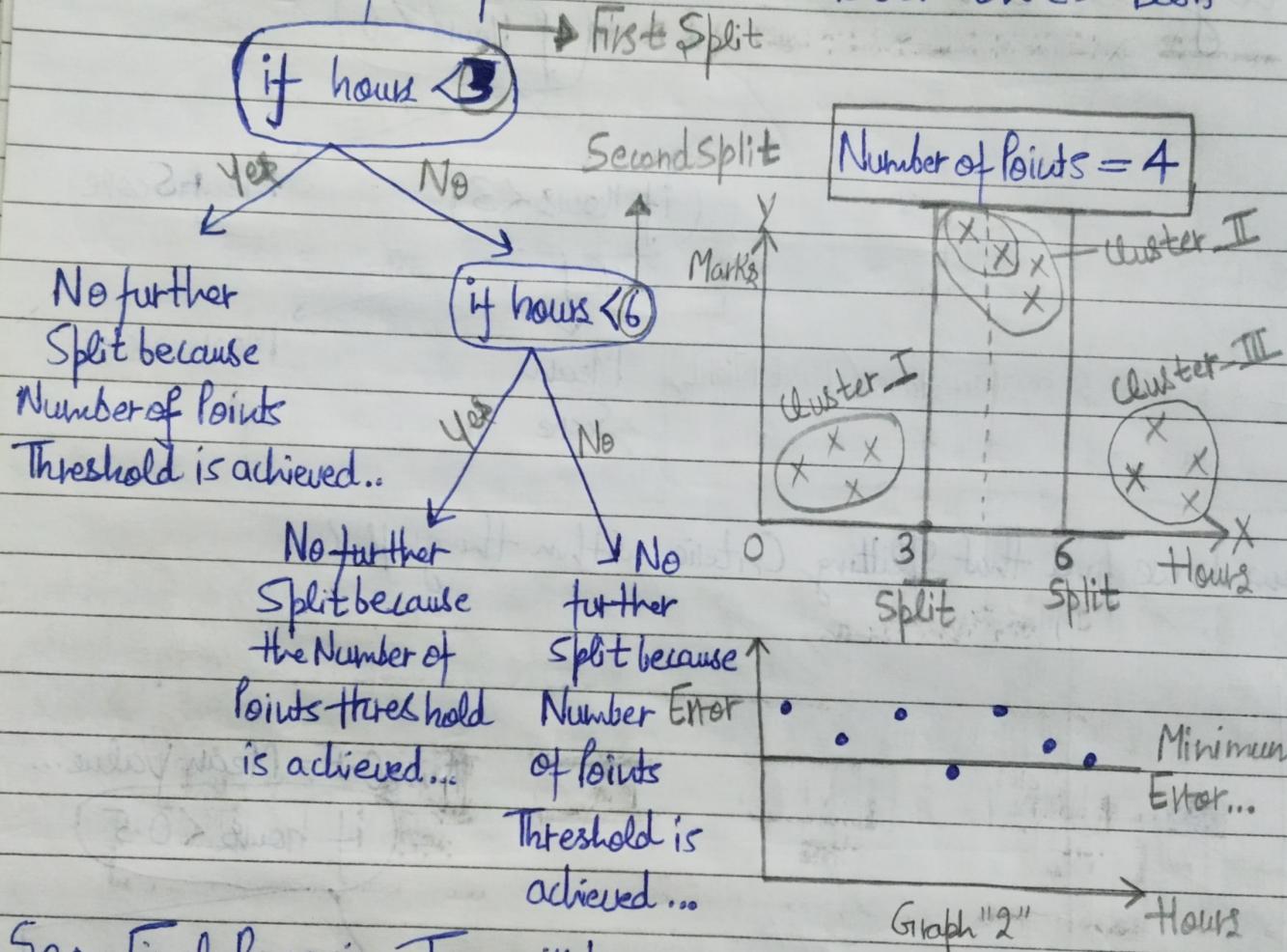
- ① Taking other 2 points and split them on the basis of their Mean...
- ② $\text{if hours} < 1.5$
This 1.5 is the Mean - Value
- ③ $P_1 \text{ Marks Mean}$ Points Remaining Mean.

Plotting that point on Graph "1".

Spiral

Date.....

Once we plot all the points on Graph "1". We have to calculate the Minimum Error. "e5". So, our first Split on the dataset is done on "e5" Basis



So:- Final Regression Tree will be:-

