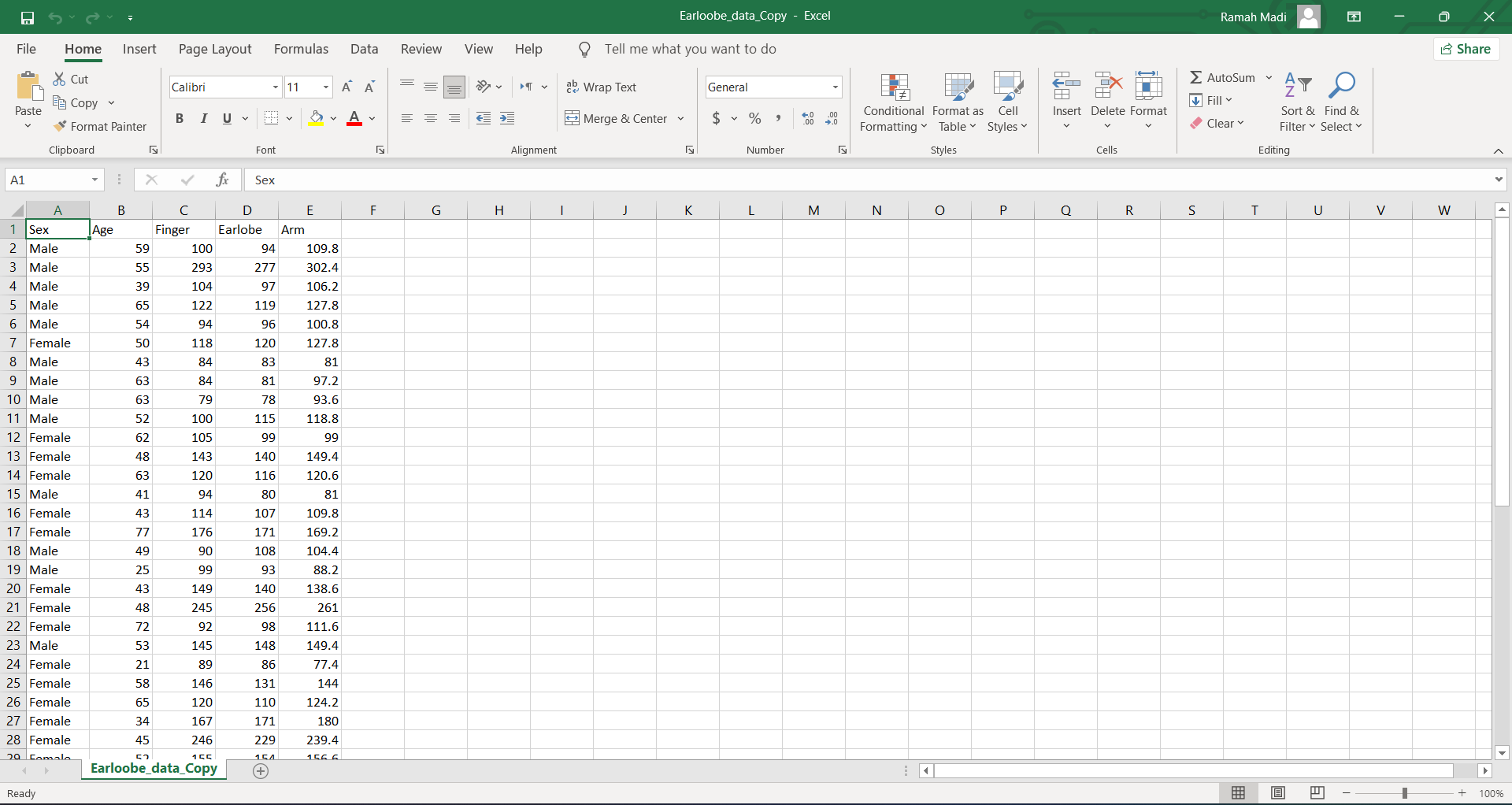
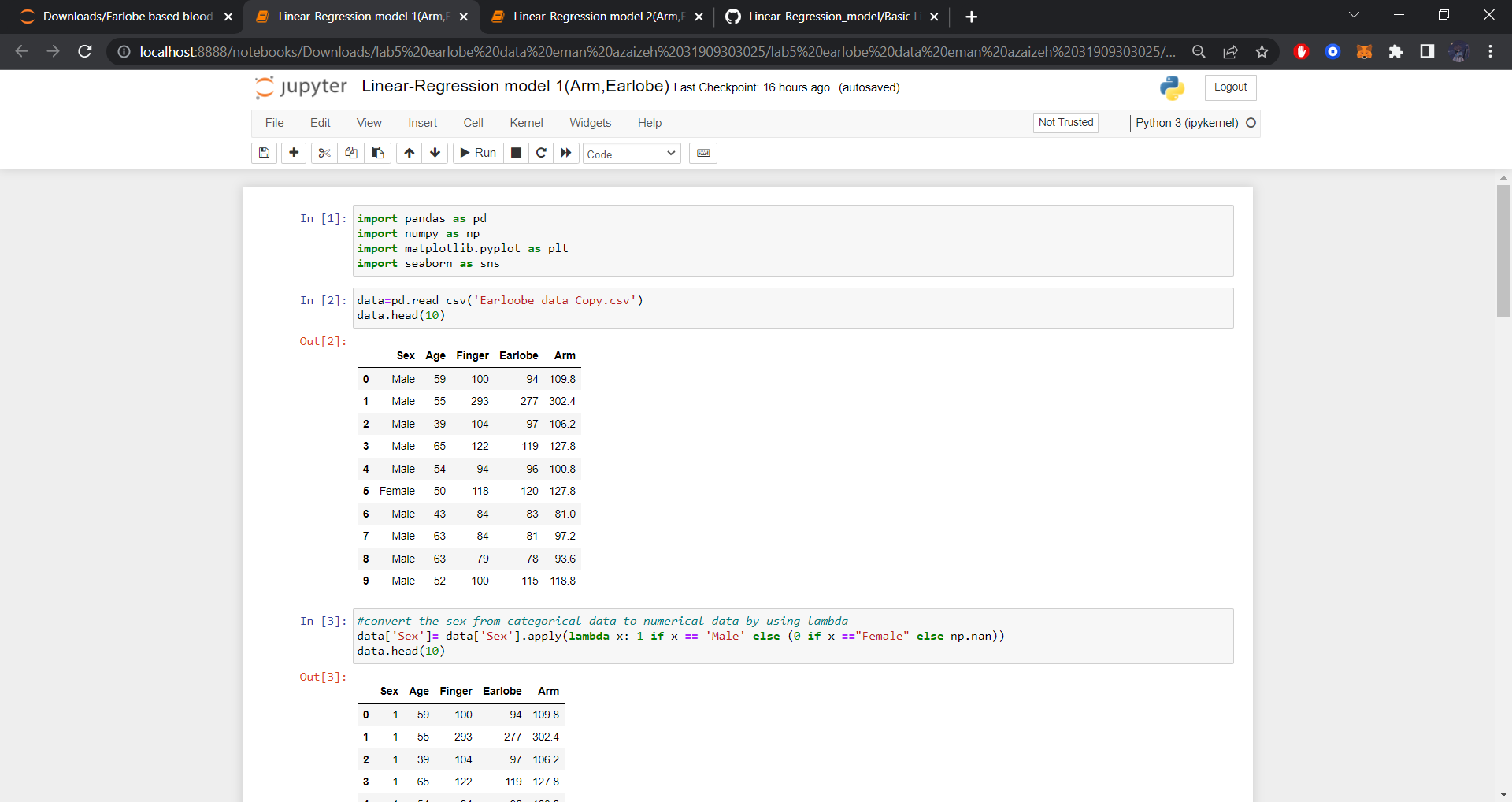
Evaluate the correctness of blood sugar test using earlobe dataset with Linear regression(jupyter)

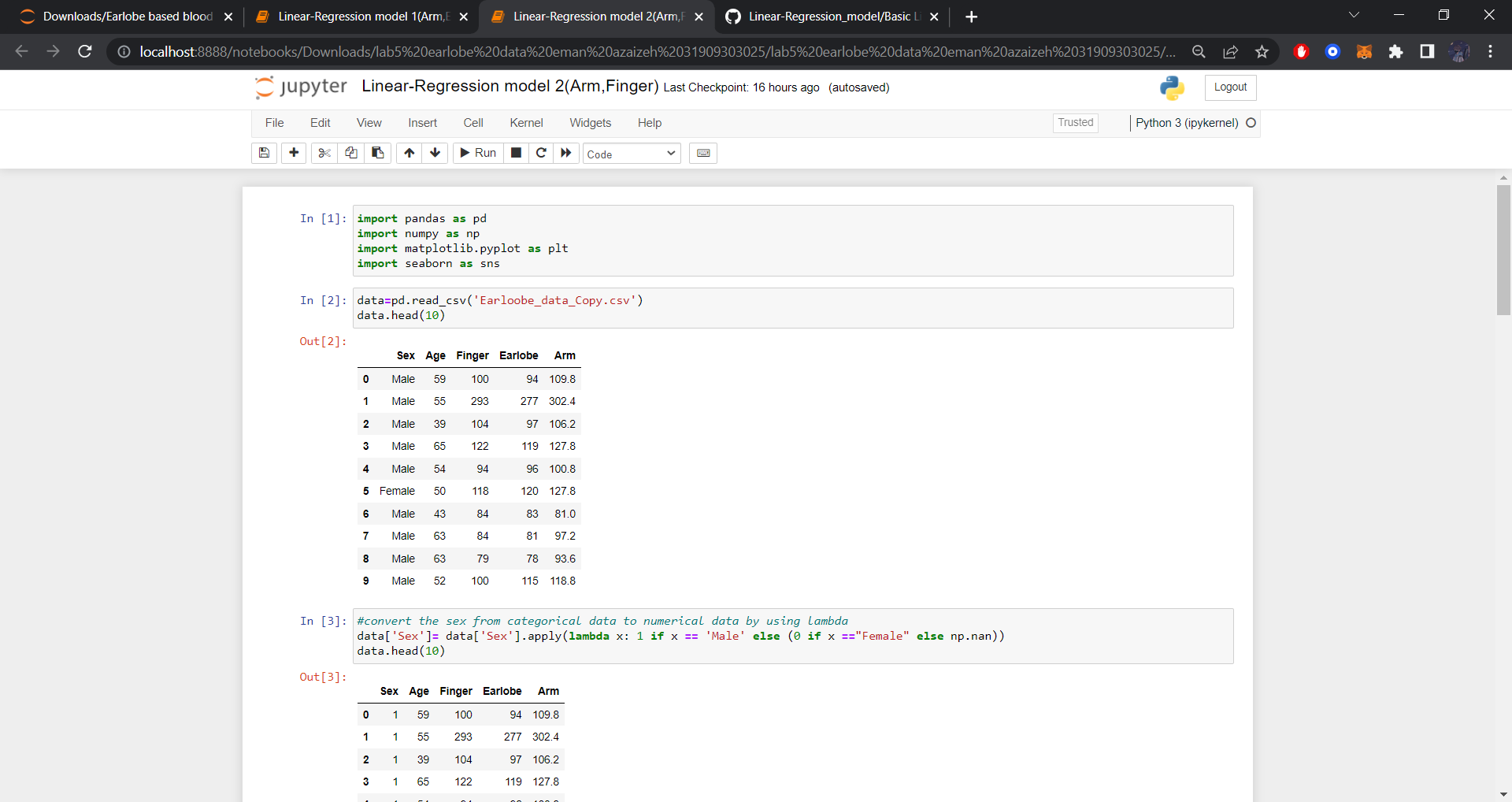
[1] I take most of the code from eman azaizeh then I modify some things in code .

[2] Reformulate the dataset to excel file..

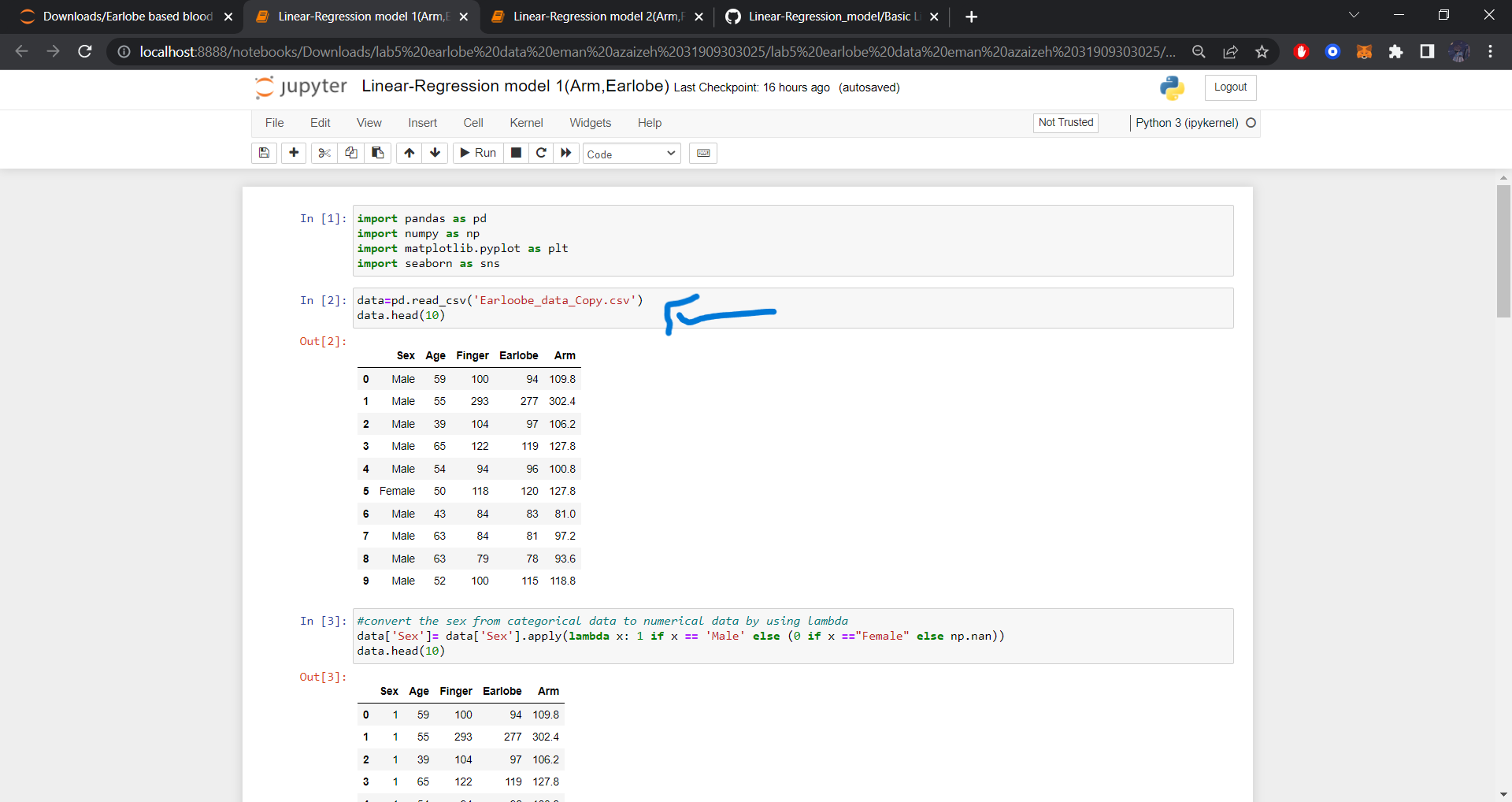


[3] Make tow linear model.

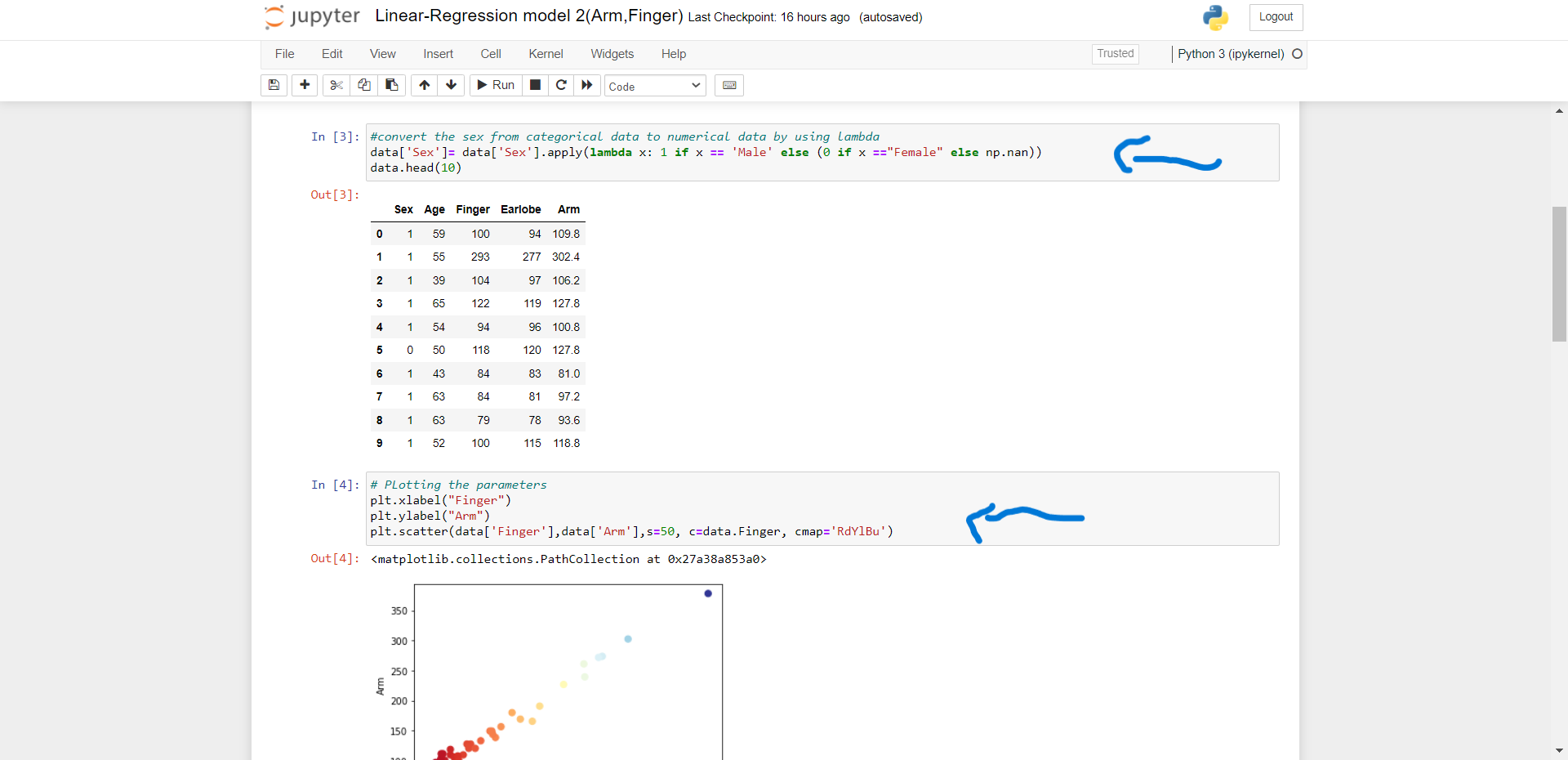




[4] Modify this line of code between " " to the name of my file .csv name (data = pd.read\_csv("Earloobe\_data\_Copy.csv"))

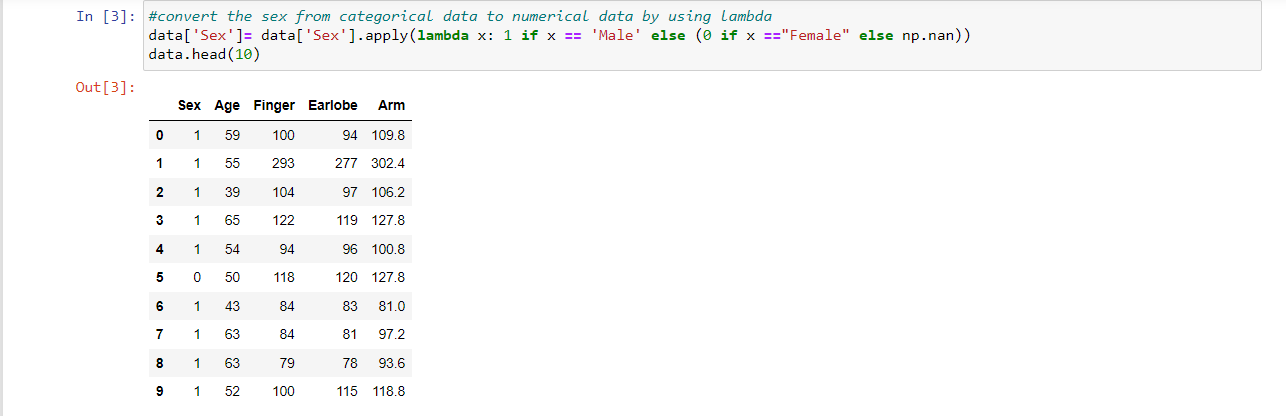
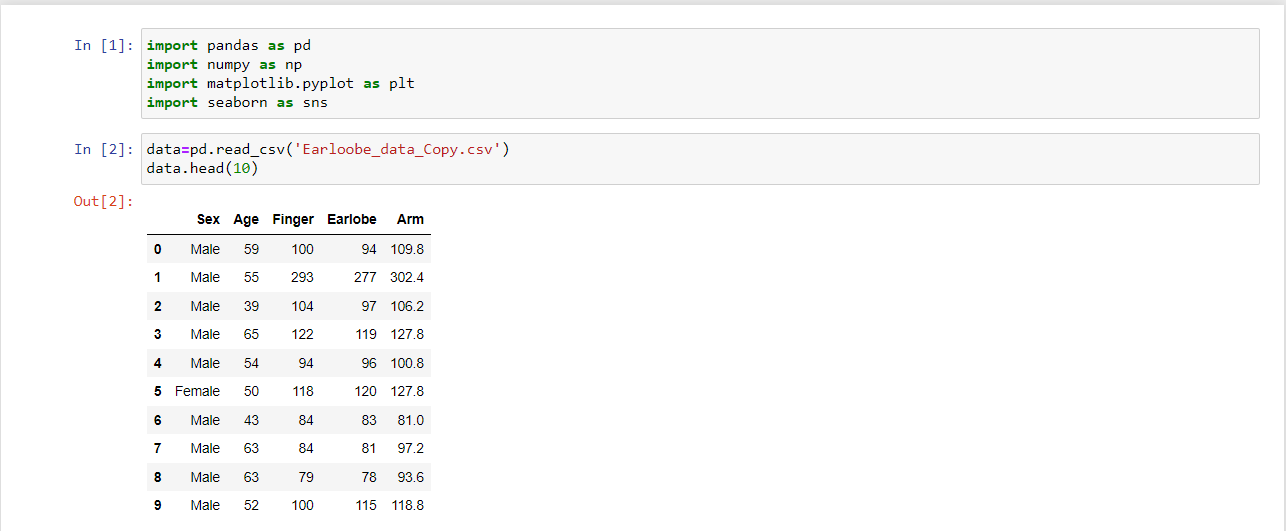


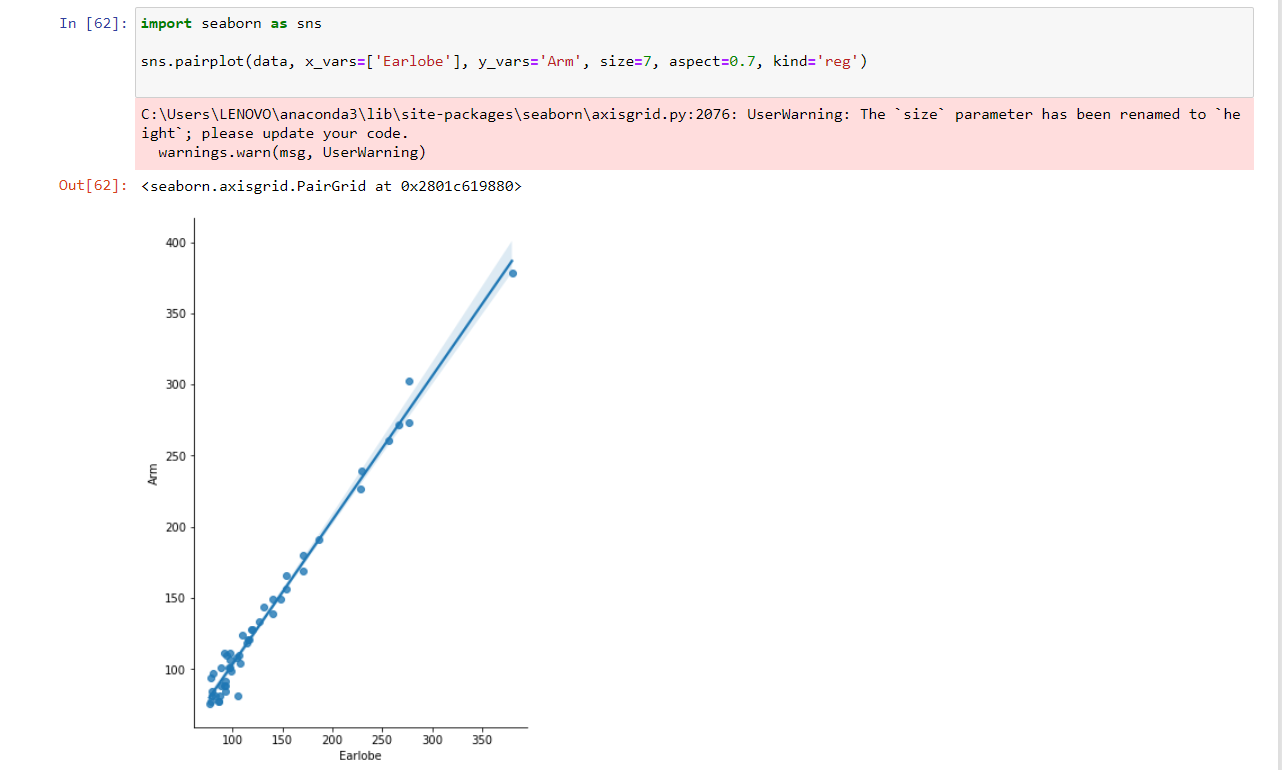
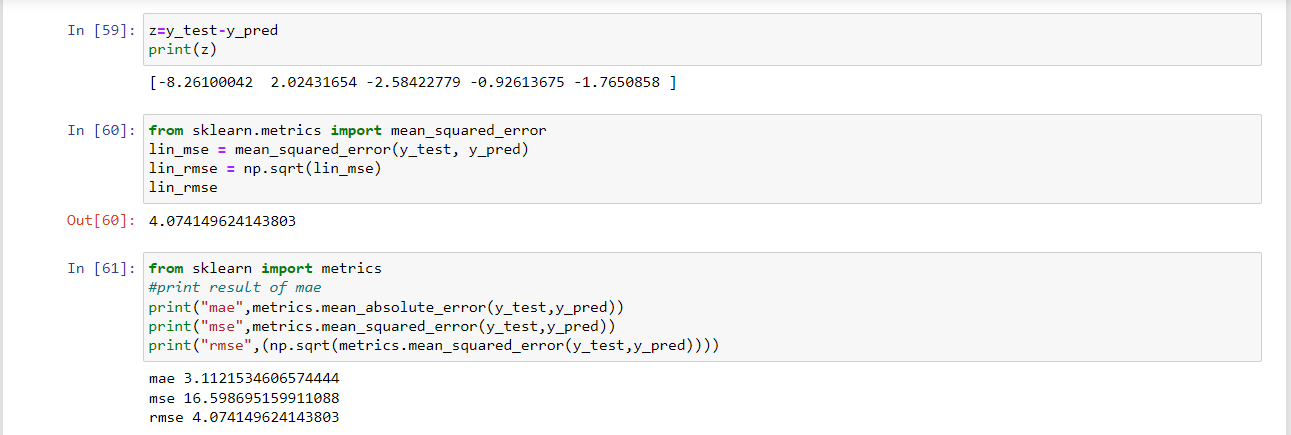
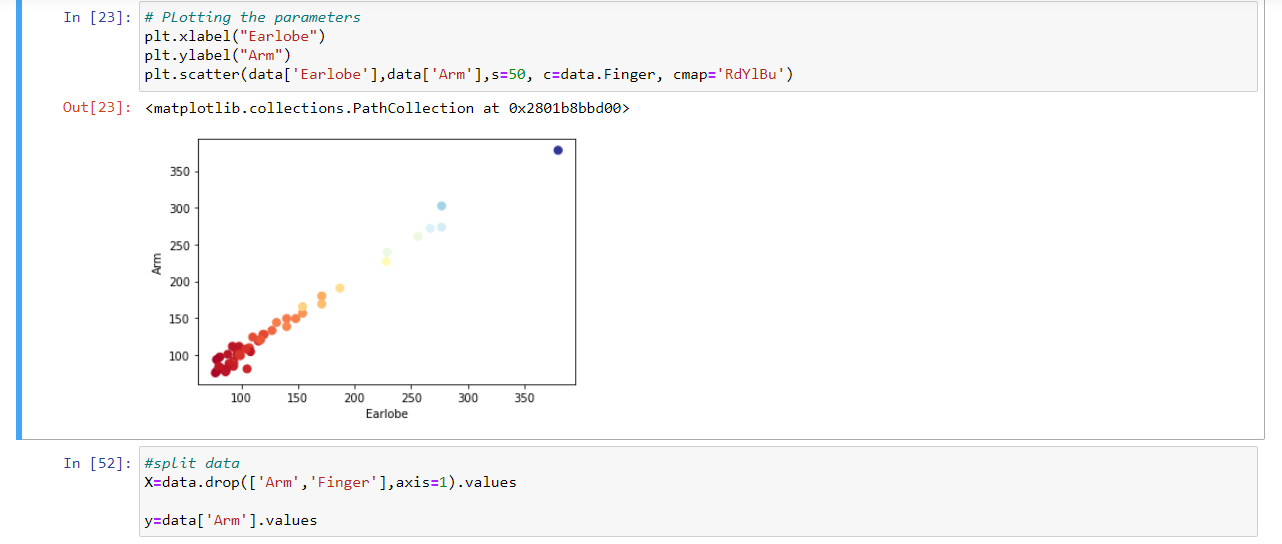
[5] Modify another thing in code to fit with lables in dataset.



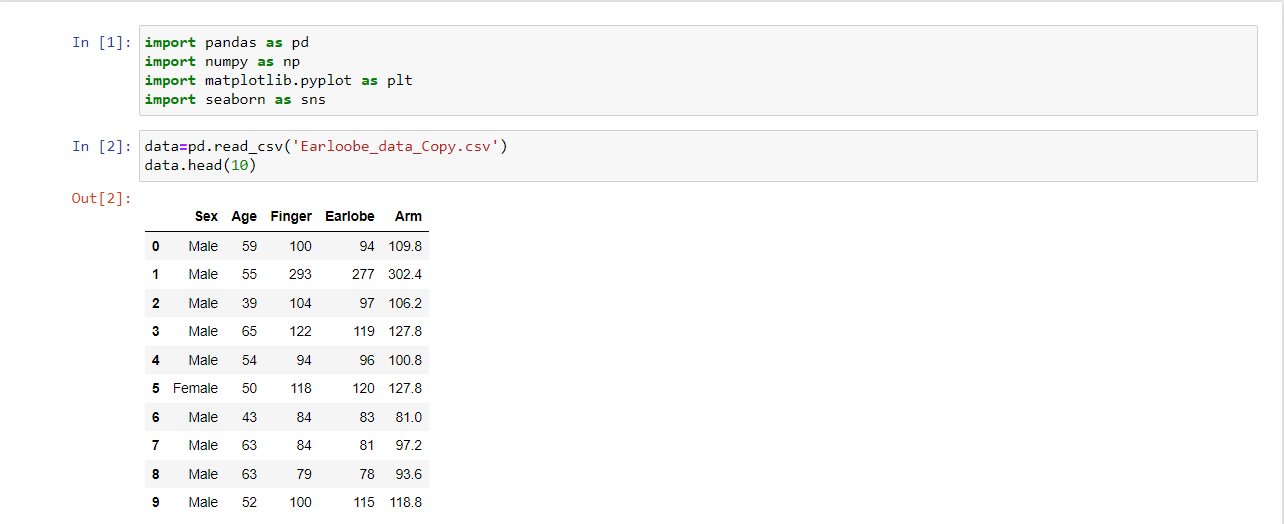
[6]Run the code!

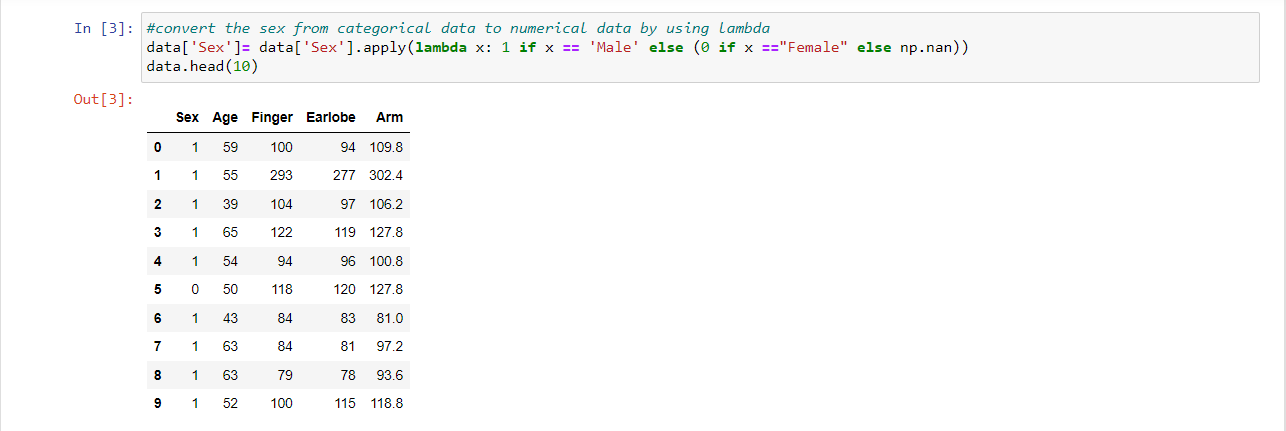
Model1(Arm,Earlobe)..

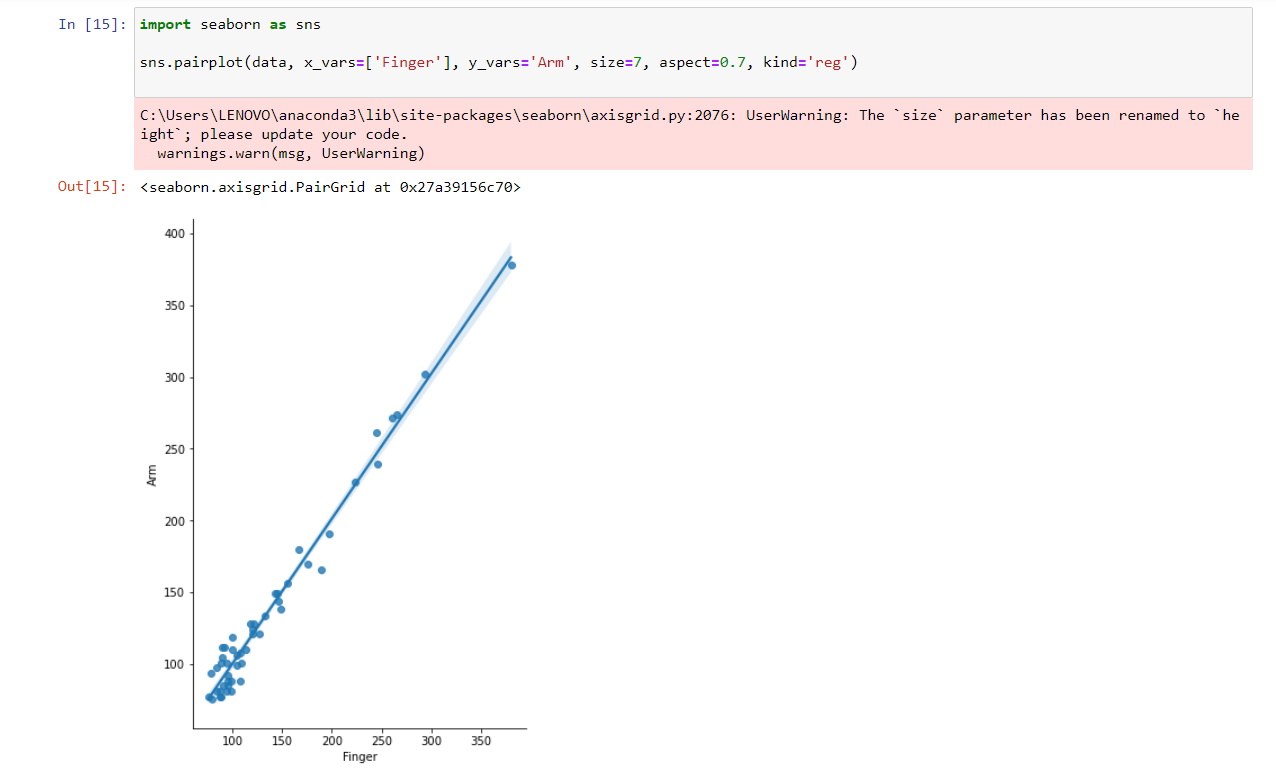
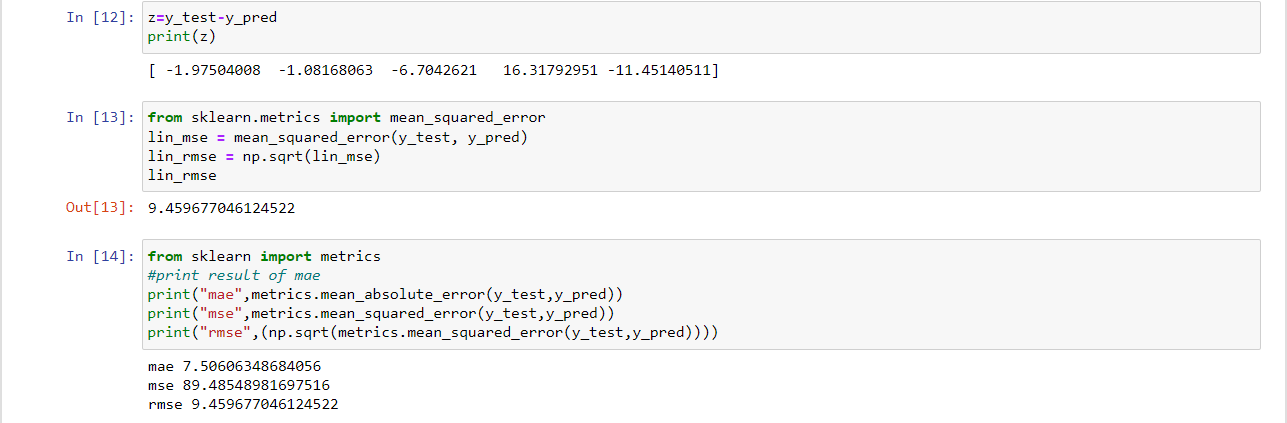
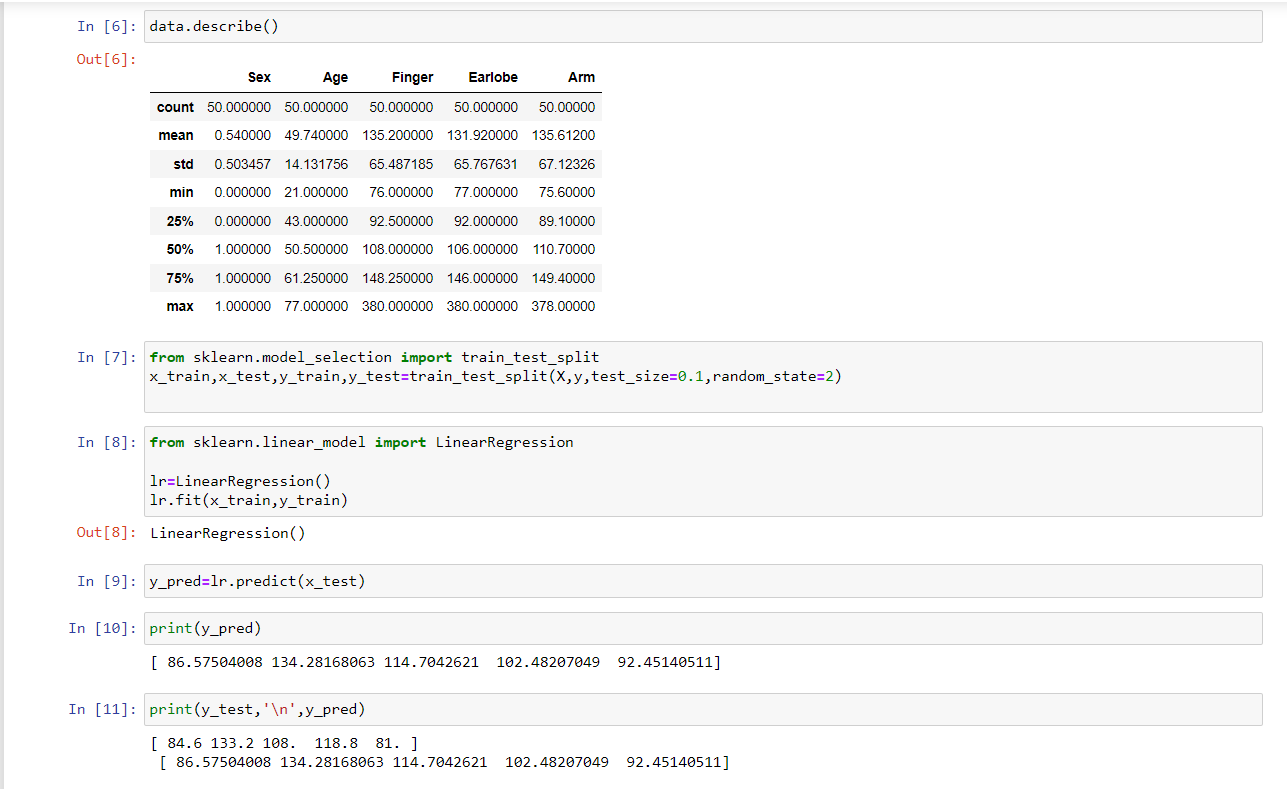
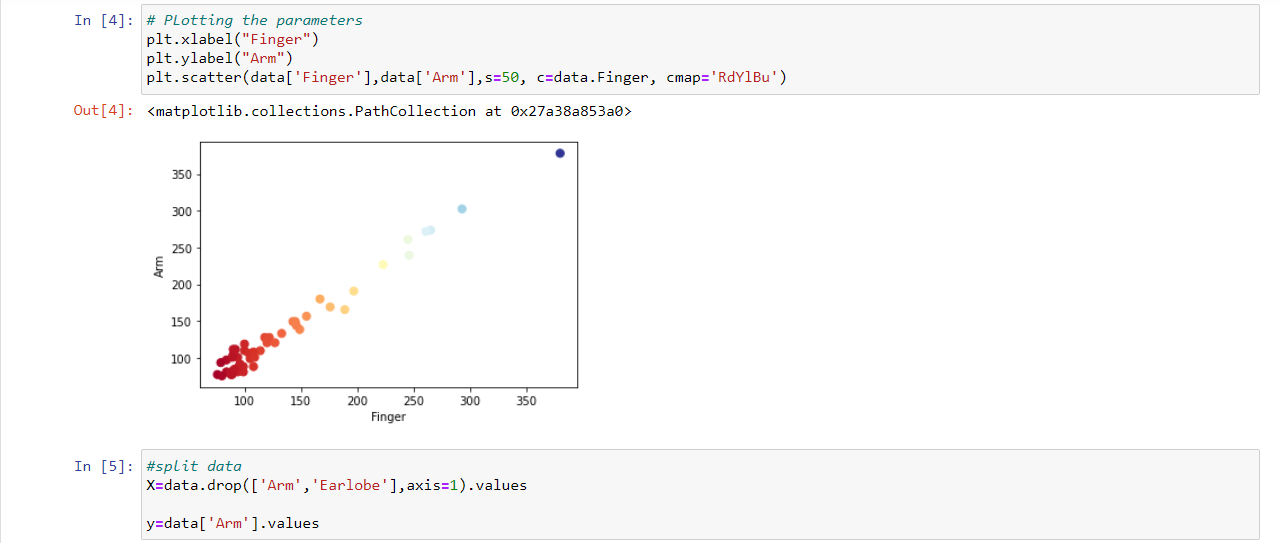




Model2(Arm,Finger)..







[7] In the first model I evaluate Arm with Earlobe,and By using Ordinary Least Mean Square Method I got these results :

Root Mean Squared Error = [4.074149624143803]

mae 3.1121534606574444

mse 16.598695159911088

rmse 4.074149624143803

[8] in the second model I evaluate Arm with Finger,and By using Ordinary Least Mean Square Method I got these results :

Root Mean Squared Error = [9.459677046124522]

mae 7.50606348684056

mse 89.48548981697516

rmse 9.459677046124522

[9] By comparing the performance of the first and second model, the first model is better than second model So the earlobe test more accurate than finger test referring to Arm test.

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