**LAB NOTEBOOK**

**INTERNSHIP RESEARCH**

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**Beginning 26 May 2025**

***Monday 26 May 2025***

1. **Created Github Repository**

I created a github repository to store all the

updates of internship covered till date.

1. **Gaining knowledge about further left chapters**

I am making a new pdf which covers topics of chapter 2 , so I can gain knowledge upon the topic and make a video on it as well.It will help me to grasp the knowledge in depth about the topic.

***Tuesday 27 May 2025***

1. **Worked upon the chapter**

Done the right work to understand the concept further.

1. **Helped Phd student a bit**

helped in finding and arranging some files (Diet information of mammals).

***Wednesday 28 May 2025***

1. **learned the basic of R programming**

Understood how code runs in R studio , Ran the code given to me but it showed error.

1. **completed chapter 2 full**

Now, Started chapter 3 in full pace

**Thursday 29 May 2025**

1. **Chapter 3 completed half**

Looked through all the task and ran all commands in compiler

1. **Learned some basic techniques of gene loss**

Bhaiya helped me to understand this in brief

**Friday 30 May 2025**

1. **Completed chapter 3 full**

Briefly completed chapter 3 along with making notes

**Monday 2 June 2025**

**Half completed chapter 4**

done the tasks present in book in the compiler and did the theory work

**Tuesday 3 June 2025**

**Chapter 4 completed full**

Done chapter 4 completely and heading forward to chapter 5

**Learned basics of Crispr**

Learned basics of crispr through youtube

**Wednesday 4 June 2025**

**Completed chapter 5 half**

Completed chapter 5 along with all task present in book

**Thursday 5 June 2025**

**Completed chapter 5**

Along with notes Completed chapter 5

**Uploaded video of Chapter 1 -4**

**Friday 6 June 2025**

**Half done Chapter 6**

Half completed chapter 6 along with some questions given in the book

**Monday 9 June 2025**

**Completed chapter 6 along with chapter 7 halfway**

Completed chapter 6 and basics of chapter 7 started

**Tuesday 10 June 2025**

**Completed chapter 7 and Chapter 8**

Started off with chapter 9 and learned things about debugging

**Wednesday 11 June 2025**

Completed half reading chapter 9 and made some notes

**Thursday 12 June 2025**

Completed with chapter 9 and done all task in it and made notes

**Friday 13 June 2025**

Started off with chapter 10 and learned the basics of blasting and its functions.

**Monday 16 June 2025**

Completed with chapter 10 and done all the tasks in the chapters.

**Tuesday 17 June 2025**

Started and completed Half chapter 11 and looking forward to doing some real work.

**Wednesday 18 June 2025**

Completed with chapter 11 along with all the tasks in it.

**Thursday 19 June 2025**

Started off with final chapter 12 and looking forward to completing it.

**Friday 20 June 2025**

Completed all the chapters and looking forward to making videos of all chapters as asked by Sir.

**Monday 23 June 2025**

Made chapter 1-2 videos each of 30 min as asked by Sir.

**Tuesday 24 June 2025**

Completed making Videos for chapter 5.

**Wednesday 25 June 2025**

Completed making Videos for chapter 6.

**Thursday 26 June 2025**

Completed making Videos for chapter 7.

**Friday 27 June 2025**

Completed making Videos for chapter 8.

**Monday 30 June 2025**

Completed making Videos for chapter 9-10.

**Tuesday 1 July 2025**

Completed making videos for chapter 11 and 12.

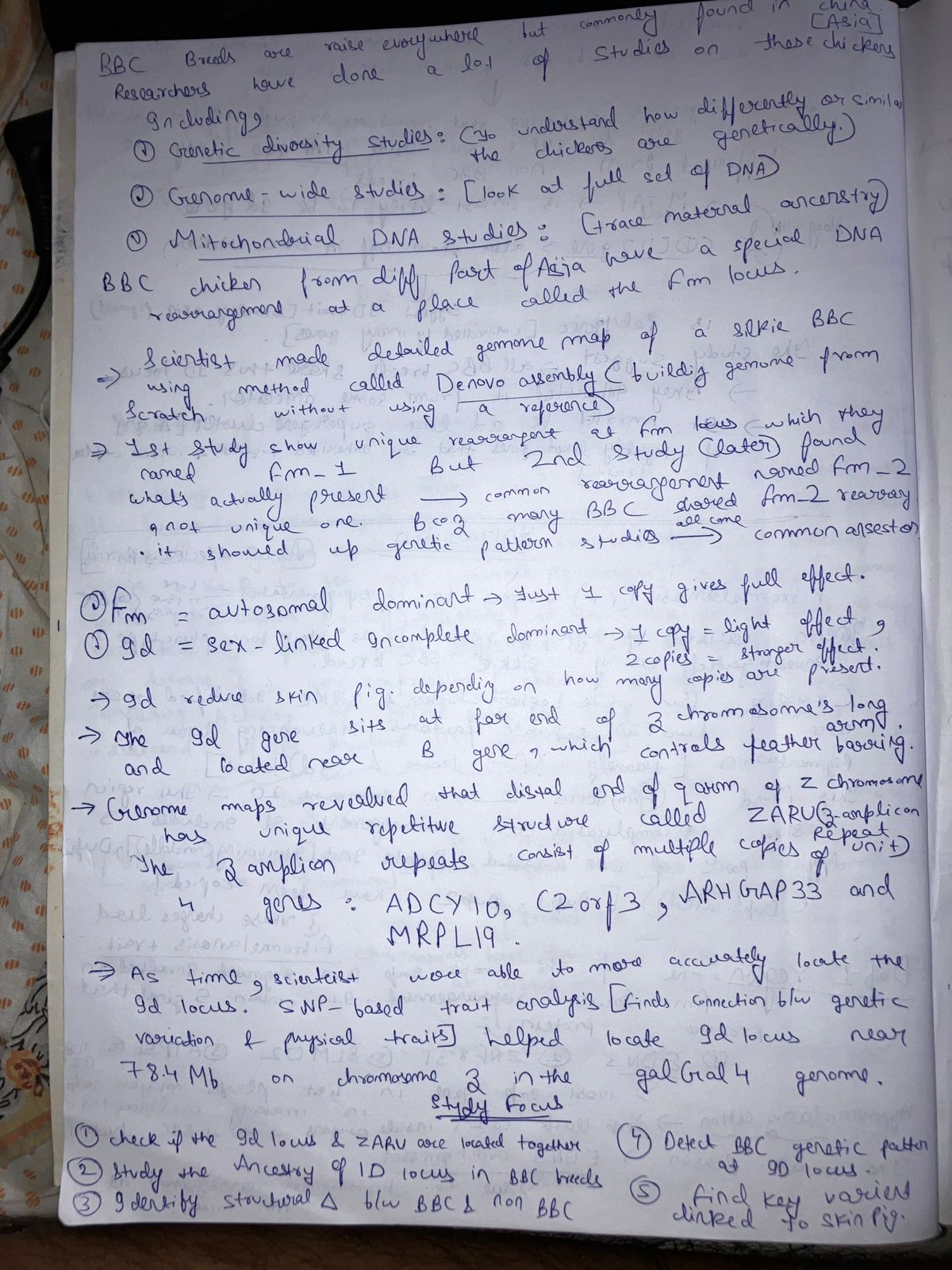
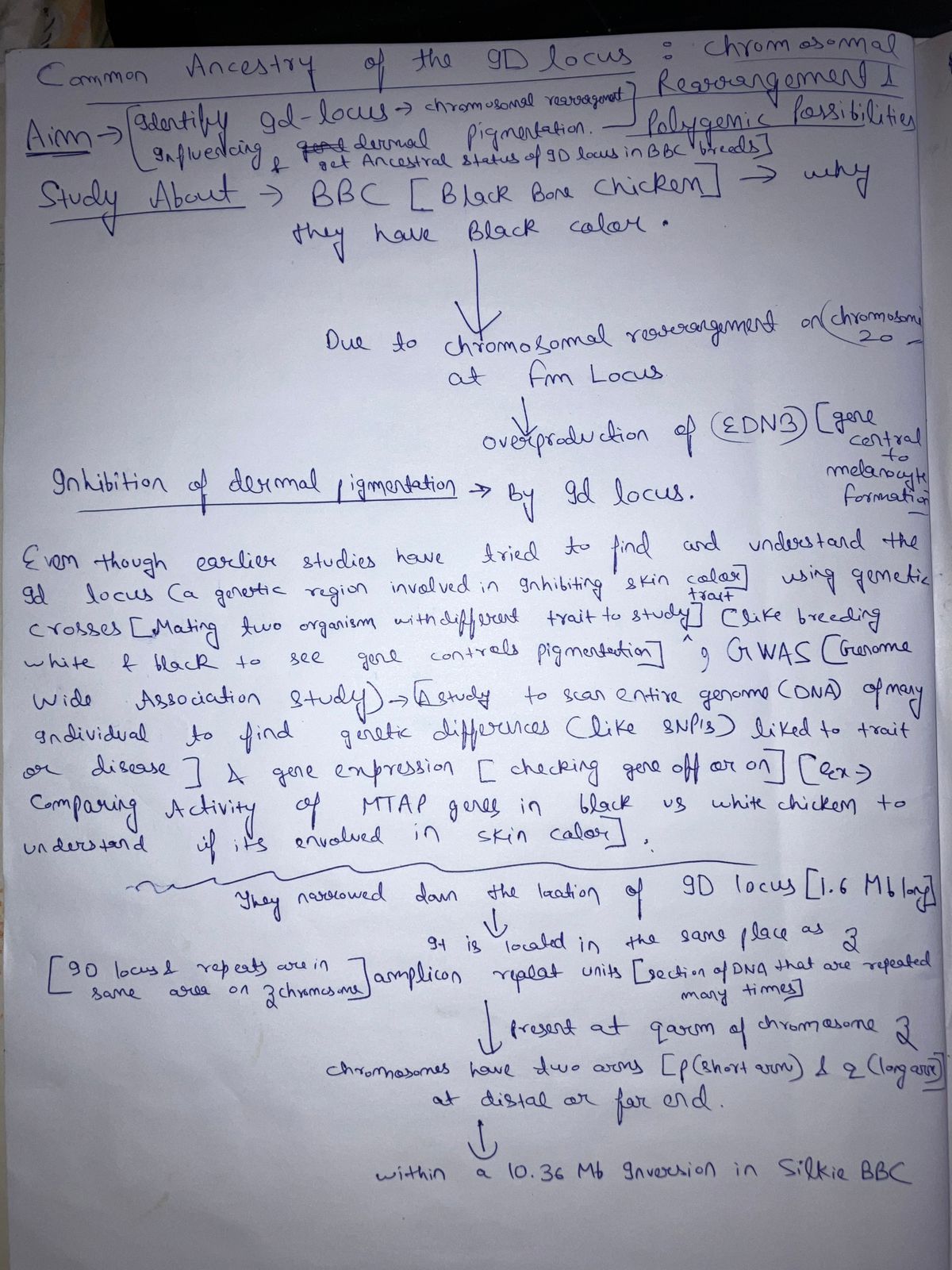
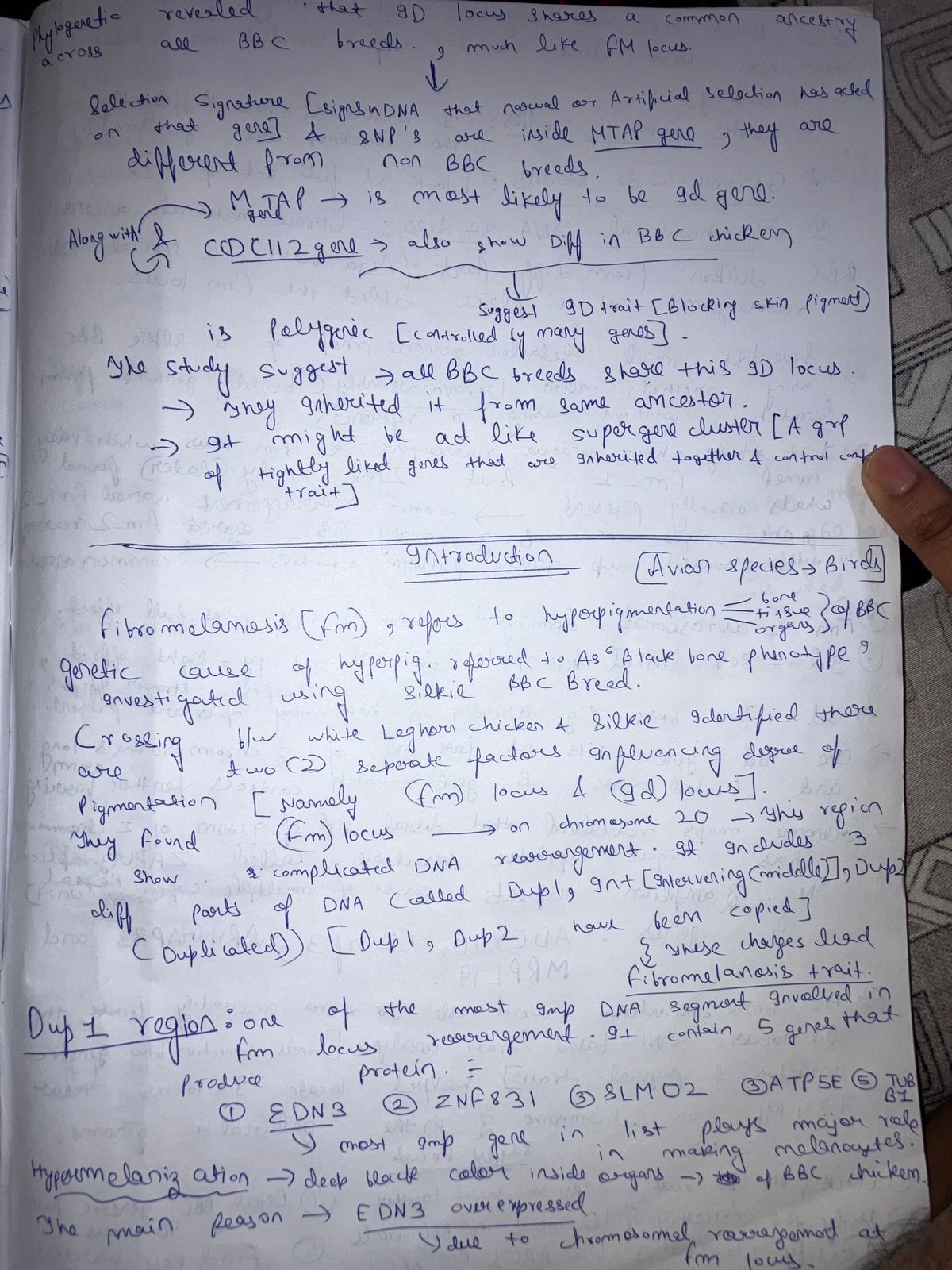
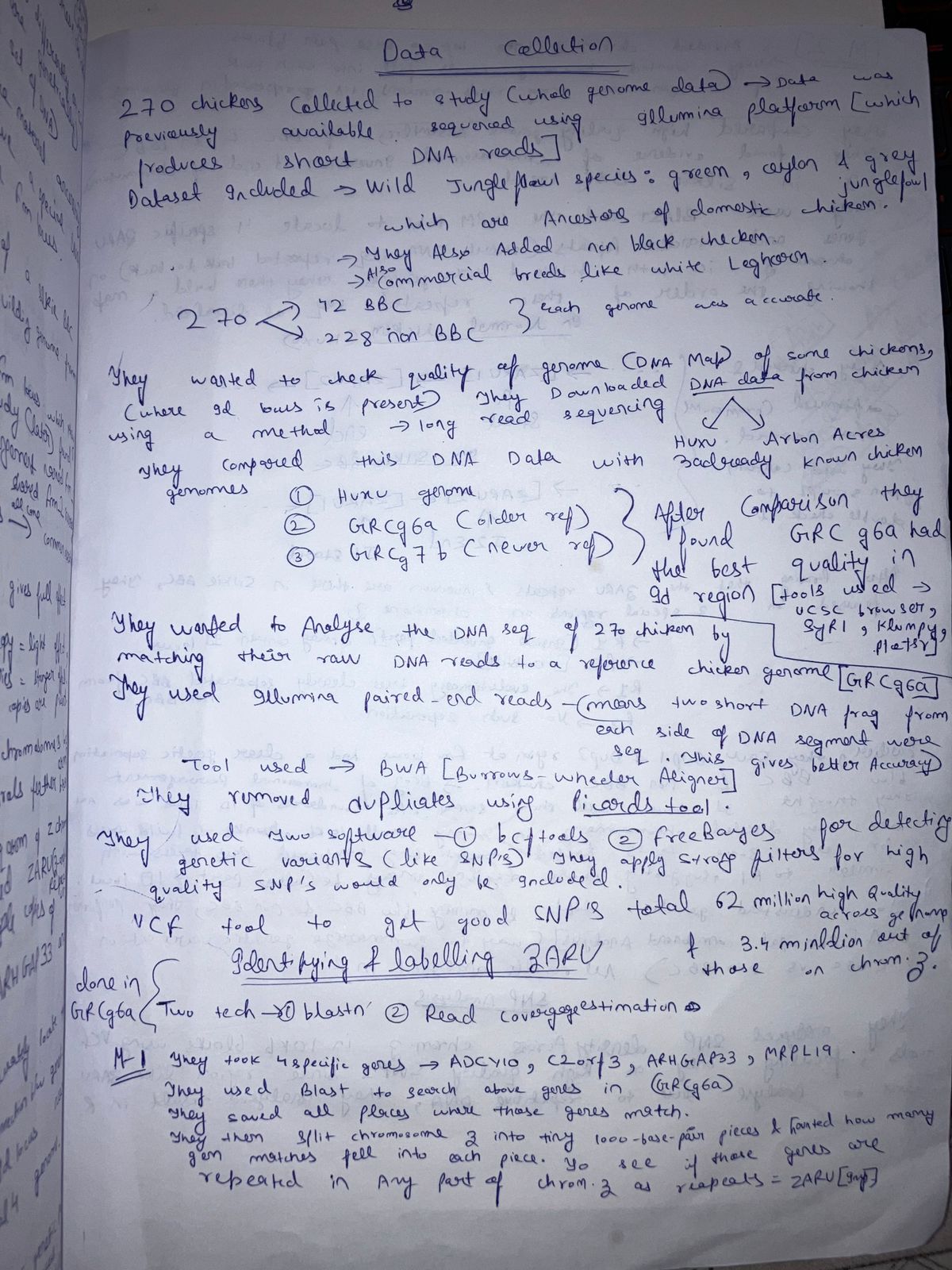
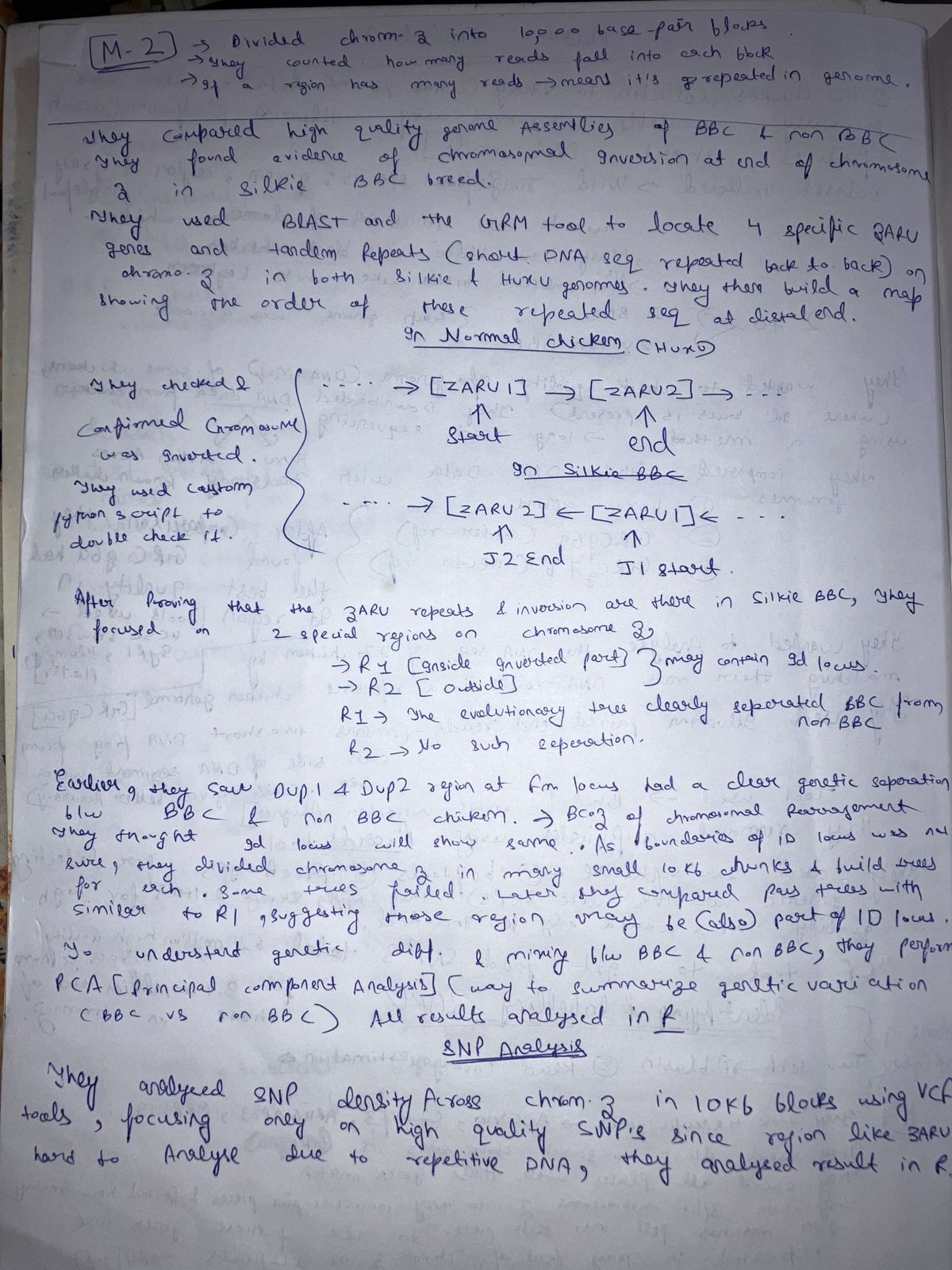
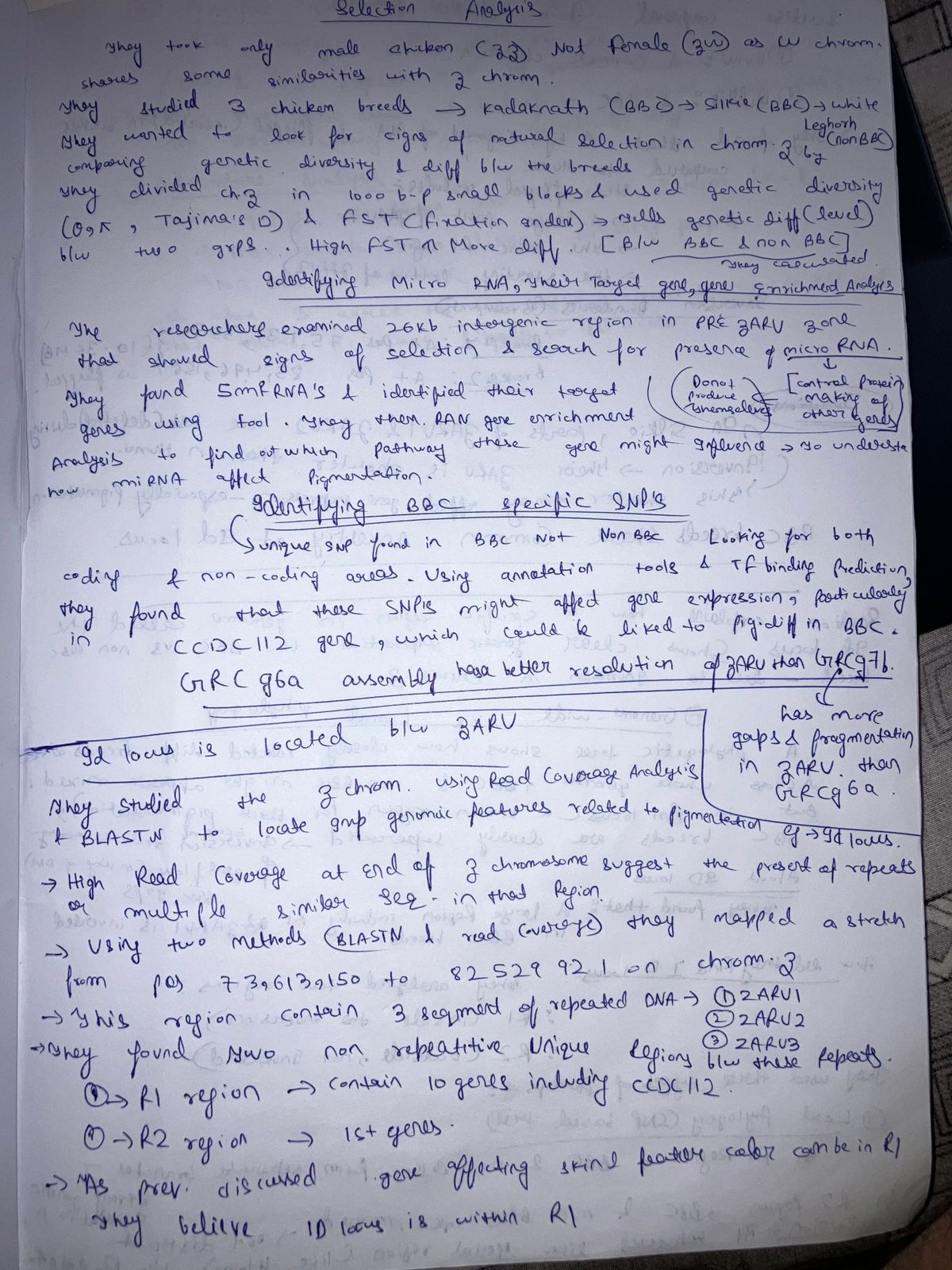
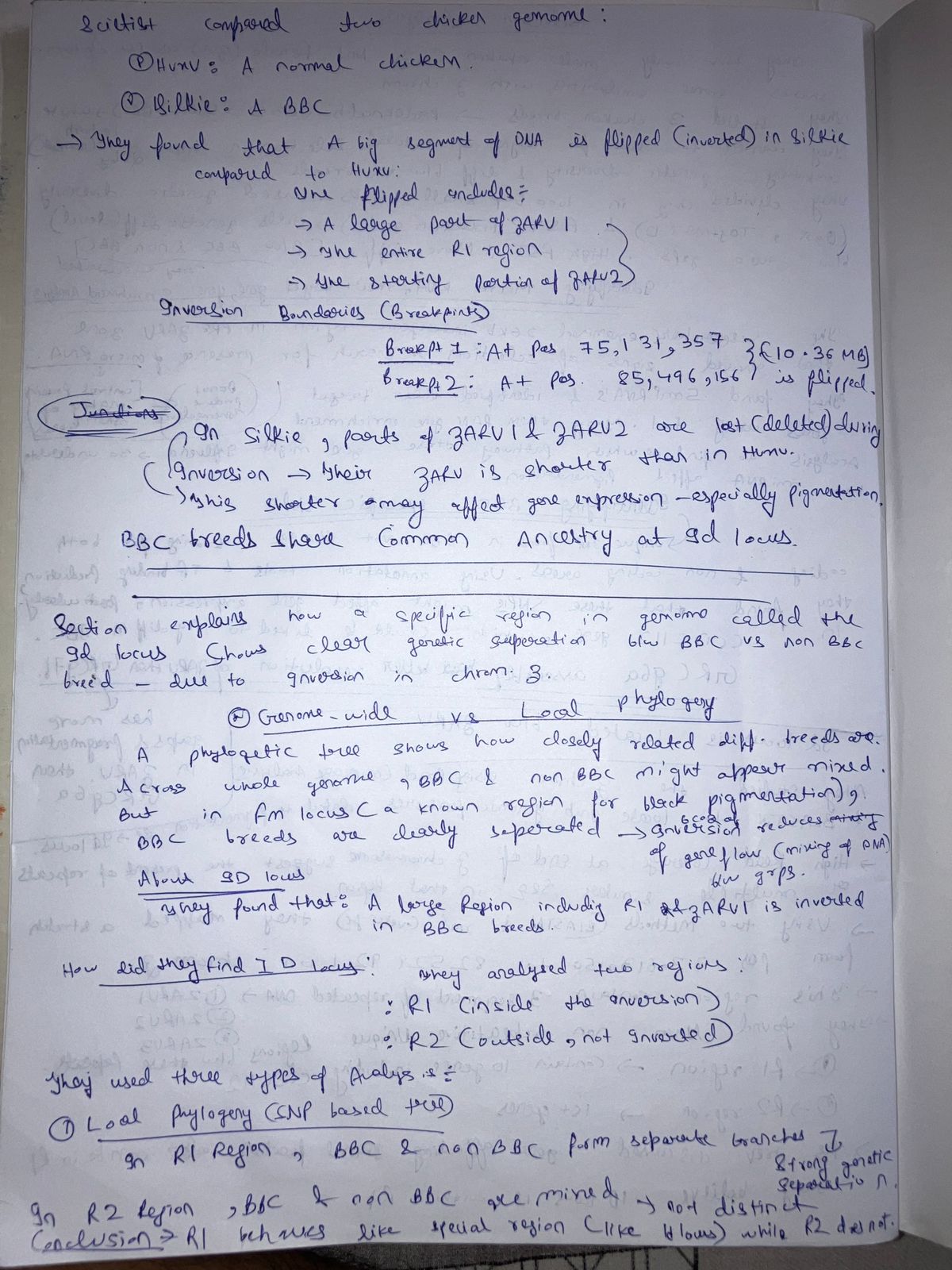
**Wednesday 2 July 2025**

I started reading a research paper given to me by sir . The research focuses on finding the specific location of genes responsible for Black color bones and skin in black bone chicken.

“https://link.springer.com/article/10.1007/s00239-025-10233-z”

**Thursday 3 July-Monday 7 July 2025**

Read the paper thoroughly and understand all the minor details about it along with making notes.

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**Tuesday 8 July-Tuesday 15 July 2025**

Using knowledge of Coding with help of Internet created Simulation Script which not only create genomic bed files but also performs Mutations of the genes (example : Deletion, Duplication, Inversion , Insertion)

**15 July - 20 July 2025**

The code Present in Original Paper fails to analyze results for deletion and insertion of genes which I fixed up to an extent . All the files along with Readme File is present in repository :

“https://github.com/Zuhn0/simulation/tree/main”