PROBLEM 1:

Things Learned:

1. Implementing inheritance in Java.
2. Using abstract class and functions in Java. <Link>
3. Overriding abstract functions in inherited class.

Problems Faced:

1. Overriding abstract functions.
2. Implementing abstract class.

PROBLEM 2:

Things Learned:

1. Reminisced Merge Sort.<Link>

Problems Faced:

1. Implementing Merge Sort.
2. Calculating Execution Time.

PROBLEM 3:

Things Learned:

1. Multithreading in Java. <Link>
2. Using various java libraries.

Problems Faced:

1. Implementing multithreading and calculating execution time in the program.