Operating System Project 1 Report



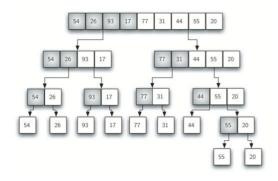
Students:-

Name: Mahmoud Ahmed KhalilName: Yehia Tarek AbdEl MonemName: Mohamed Hussein SaleimID: 15P601315P6026

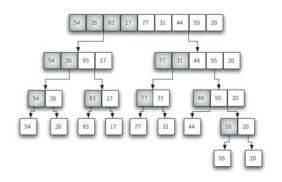
Project Description:-

HOW Its work:-

First Thread



Second Thread



Test cases:

input:

2 9 12 11 97 10 3 4 82 1 90 40 33 22 75 66 55 99 40 30 20 90 10

output:

2 3 4 9 10 11 12 97 1 22 33 50 82 90 55 66 75 99 20 30 40 10 90

Project Details:-

Project Subject: Multi-thread.

Project Language: developed using Java.

Project IDE: Neat-beans.

<u>Project Objective:</u> Implements Multi-thread concept by sorting integer lists(global arrays) using

threads.

<u>Project Structure</u>: We have Four classes in our project.(Main, SortMergeClass, SortingThread, MergingThread).

Functionality of each class:-

Main.java: Is the class responsible for running our project.

SortMergeClass.java : Where we take the list of integers and sort it by using threads in the two classes SortingThread and MergingThread.

MergingThread.java: Inherits from threads main class to merge the two sorted global arrays.

SortingThread.java: Inherits from threads main class to sort any integers list,in our case we have two global array.