Task 1 (a)

Here a text file 'input1a.txt' was opend and read. Traversing though the numbers given in the input file and using a for loop to determine odd, even number by modding the number by 2. then output file ("output1a.txt") is written in a txt file.

Task 1 (b)

open a text file and named as ("input1b.txt") then read the file and traversed input file. The input file had some calculation. Using a for loop then given operation (+, -, *, /) based on the input line ~~there~~ I do my calculation.

Task 2

I used flag so that if any swap does not occur which is the best case scenario, the loop will break and we will get the $\Theta(n)$ time complexity.

Task 3

by spliting input file i take two seperated list id and marks. The marks list is sorted by selection sort & selecting the max number. when i found max number ~~store~~ store the idx and swap the number with the same idx i also swap the id number. that remains the same position [marks, id] idx. If marks is same the position of lower id swaped

Task 4

separated list was train, loc, time. train means train name. loc is the destination and time is arrival time. Then selection sort is used to sort train name and arrival time. [same as task 3]

At the same time the datas in loc and time list was also swaped to the same position. If name was same then the latest one was put forward