Task 1

Write a program that inputs N numbers through command-line arguments and store it in **input.txt**. The process then creates two child processes to calculate the average and Sum respectively. The parent process should wait for their Childs to finish their tasks.

Task 2

Write a C program in which the parent process receives an integer array through command-line arguments and passes it to each of its two child processes using pipe. Child1 process will find the sum of array elements, child2 will find min of array elements and return their respective results back to parent process using separate pipes. The parent processes will print min and sum value on the terminal. HINT: You need to create 4 separate pipes for this task

Task 3

Write a C program that will perform the following

grep “m” < input.txt | sort > output.txt

Task 4

**Develop a C program that receives a command-line argument representing the number of child processes to create. Each child process will read a specific portion of a large 'input.txt' file, containing unsorted integers. Each child process will independently sort its portion of integers and then communicate its sorted portion back to the parent process. The parent process will merge these sorted portions into a single sorted list and display the sorted result on the screen.**

Task 5

**Write a program that creates two Childs and send two different messages to Childs using pipes. Each child prints a specific Task and send back to parent to print the result.**