Assignment on pipes and fifo

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Deadline: 2nd Feb (12 PM) Marks: 20

- 1. Solve following task using IPC (fork, pipe or fifo)
 - a. Given a integer input array of size N, find minimum of integer array using five processes (1 Parent and 4 Children processes)
 - b. Child Process 1 should find minimum of first part of the array
 - c. Child Process 2 should find minimum of second part of the array
 - d. Child Process 3 should find minimum of third part of the array
 - e. Child Process 4 should find minimum of last part of the array
 - f. Parent process should wait for all children process to complete their execution and then collect their results. Finally print minimum of the array
- 2. Create two FIFOs and do the following using two processes
 - a. Process 1 should write a text message into FIFO1
 - b. Process 2 should read the text message from FIFO1 and it encrypts the text message by adding 1 to ascii value of each character of the message. And write the encrypted message to FIFO2.
 - If process 1 reads EXIT encrypted message from FIFO2 then process 1 exit.

else process 1 writes another message into FIFO1

Note: Don't copy codes. You can discuss about logic.

Submit your assignment (Codes, Text File: testing of code) in google form. I will share it soon.

Create a text file and write your testing outputs:

Input:
Expected Output:
Actual output: