*Attempt **both** questions*

Q1: Write a C/C++ program that creates two processes, a parent and a child where the child is created via the fork() system call. The parent reads the content of a file - which contains roll number and mark, separated by a blank space. Find out the number of students who secured more than average mark and send them to child via Inter process communication (IPC). The child receives the data sent by the parent and writes it to another file together with an additional field (Equal / Above-average or Less-than-average).

Hint: You can use any one of the IPC mechanism like UNIX/LINUX pipes, Shared memory or Message queue.

Q2: Write a shell script to find out the (a) largest and smallest process (b) oldest and youngest process presently running in the system.

Hint: Create some processes to test your script.

All the best