QUESTION 2: - Solution

The problem says that write a program which should we non pre-emptive similar to Shortest Job Next and the job that gains Higher (1) priority the longer they wait, to prevent indefinite postponement(starvation) the priority will be decided by 1+ Waiting time / Estimated run time

The priority scheduling algorithm is one of the most common algorithms for scheduling jobs in batch systems.

Non Pre-emptive: - It states that the job that entered to running state should complete first before the next job enters in running state.

Every process is assigned a number which denotes the priority, and based on this priority the processes are executed. Therefore, the process having the highest priority (1) is executed first and then the priority 2,3 and so on.

The program will contain arrival time of the process (in case when 2 or more process get same execution time) and execution time.

The program will implement on the basis of priority to resolve the problem of starvation.

Since this is non pre-emptive implementation, the waiting time is comparatively higher.

The average turnaround time is higher as compared to the pre-emptive priority scheduling algorithm.