README

The zipped folder contains 3 files no_deadlock.c , with_deadlock.c and readme.
For running the c codes type
"gcc -pthread no_deadlock.c" and "gcc -pthread with_deadlock.c" then "./a.out"

Note: Sleep time can maximum goto 10 so it will take some time for code to run.

Q2) In order to avoid the starvation faced by writer process due to higher priority of reader process technique available are :

i) If a writer process is there in the ready queue for too long the OS can increase its priority then it will get the CPU first.

ii) FIFO : FIFO stands for first in first out . So the process which enters first gets the CPU first . In this way no process will starve.

iii) Keep a fixed value of the number of read processes that can happen before a writer process available in the ready queue is addressed. After the no. of read processes addressed has reached threshold a writer process can be addressed and no. of reader processes addressed can be reset to 0.

iv) This solution is little modification of the previous one. Here instead of counting no. of reader process timestamp can be maintained i.e after a certain time of continuously addressing reader process a writer process needs to be addressed.