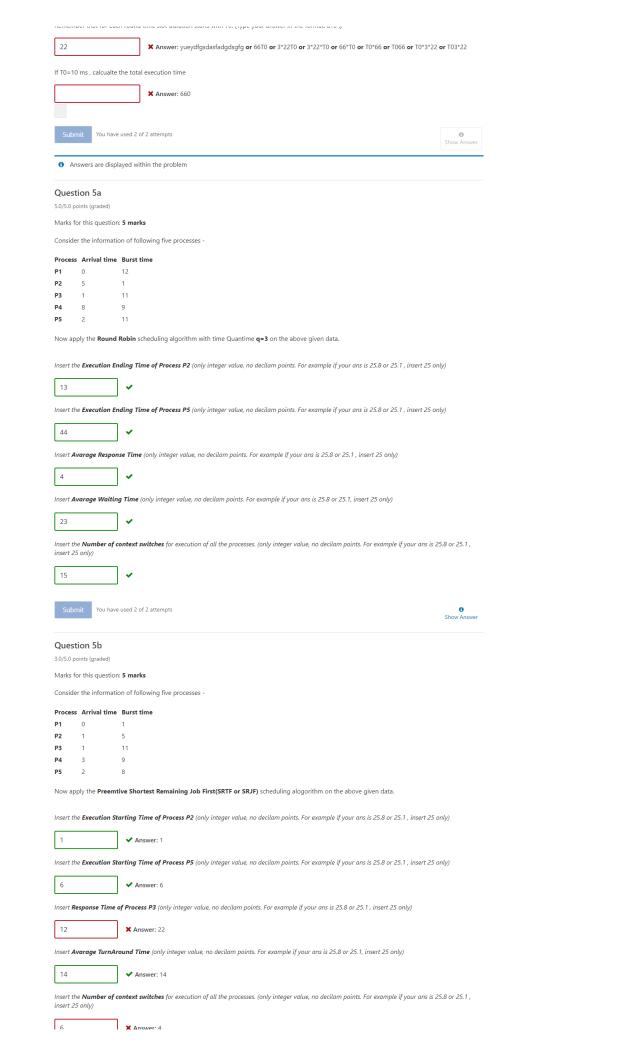
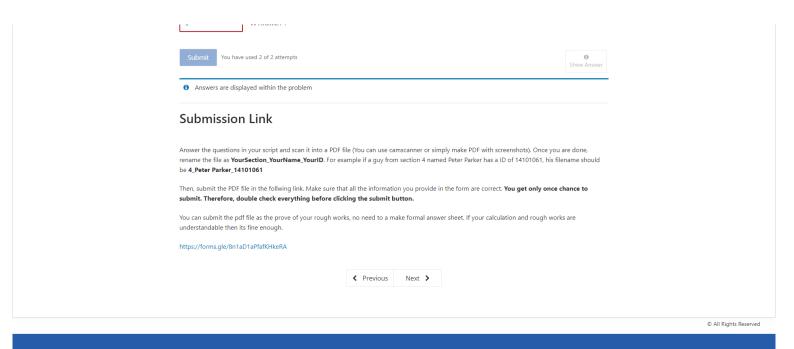


## Question 4 : 5 marks

In a single core system, a concurrent execution has following scenarios: We have 10 threads in the system (0 through 9). Threads have variable time slots. First thread (0) has a lot duration of 10 unit time the remaining threads' time slots are based on the following rule, if thread number 63 = 0, then slot duration for that thread will be 1/4th of the immediate previous threads' slot duration, see the slot duration will be two times than the immediate previous threads' slot duration. For example, if thread number 1 has a slot duration of 270 unit time then thread number 2 will have a slot duration of 470 unit time and thread number 3 will have 10. Calculate the total execution time if each of the threads gets 3 rounds to finish their complete execution.







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