CSCI 315 Operating Systems Design
Activity 15

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Work in teams of four students for this activity.

1) Use the table below to enumerate the advantages and the disadvantages of the scheduling algorithms indicated.

	Advantages	Disadvantages
Preemptive Shorted Job First		
Preemptive Priority		

2) As you know, processes and threads don't arrive at a system tagged with the length of their CPU-burst. One can, however, use *exponential averaging,* an estimation process that starts from an initial measured CPU burst t_0 with an initial estimated CPU burst T_0. For the given values below, apply exponential averaging to calculate the estimated CPU burst T_4 for two values of α arbitrarily chosen: $\alpha = 0.2$ and $\alpha = 0.7$. Explain which value should work better for the CPU burst length estimation process.

$T_0 = 2, t_0 = 4, t_1 = 5, t_2 = 8, t_3 = 3$