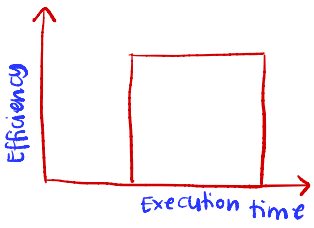
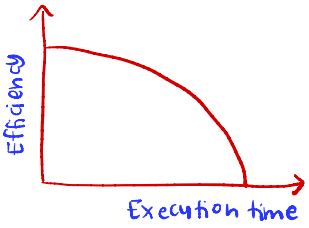
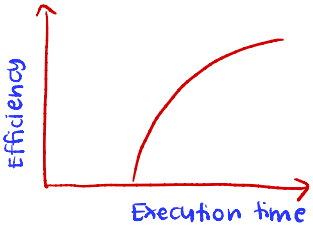
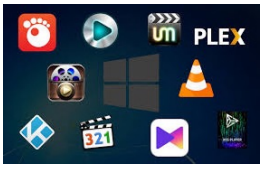
REAL-TIME OPERATING SYSTEM

Types	Hard	Firm	Soft
Definition & Differences	• The deadlines are handled very strictly • Task must executed on scheduled time • Task must be completed within the assigned time duration • Missing deadlines can cause catastrophic system failure	• Need to follow the deadlines • Missing deadlines can cause undesired effects (quality reduction)	• Accepts some delays from OS • Small delays in deadline is acceptable • Missing deadlines can cause degrade in performance
Example	• Medical critical care system • Aircraft systems • Car welding robots • Air traffic control system	• Multimedia applications	• Online transaction systems • Livestock price quotation system
Graph function			
Figure Examples	• Critical medical care • Air traffic system	 • Audio and vide applications	• Banking and financial system