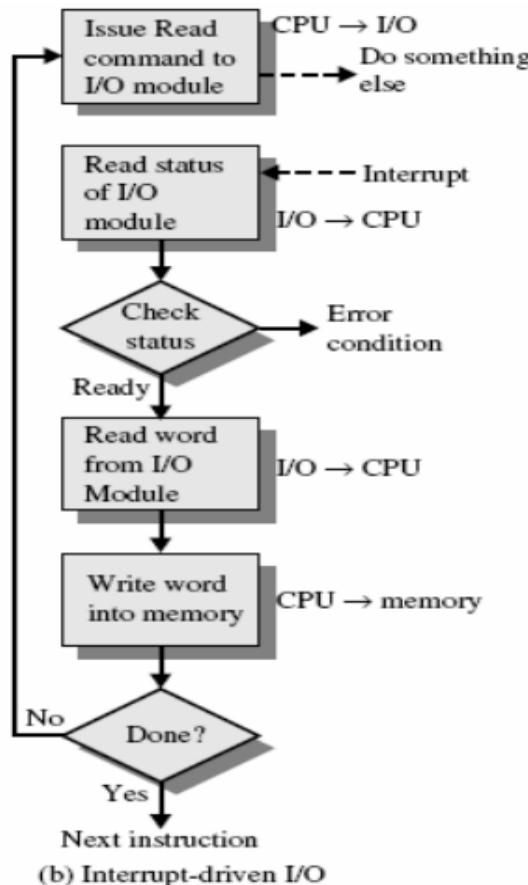


## Lecture10 Assignments

1. What are the advantages and disadvantages of supporting **memory mapped I/O** to device control registers?
2. Describe **I/O Polling**. Why is I/O polling inefficient? Suggests solution(s) to overcome the inefficiency of the I/O polling operation.
3. Briefly describe the **Direct Memory Access** (DMA) I/O operation. Point out the advantages of the DMA operation over **memory-mapped** and **direct I/O** operations.
4. Describe various circumstances under which **nonblocking I/O** should be used. Why not just implement non-blocking I/O and keep processes busy until their devices are ready?
5. What are the advantages and disadvantages of supporting **memory-mapped I/O** to device control registers?
6. What are the advantages and disadvantages of supporting **memory-mapped I/O** to device control registers?
7. Identify the nature of **I/O operation** from the given flow chart:



8. Identify the nature of the I/O operation from the given flow chart:

