

You may discuss these questions with your classmates, as it may be helpful to gain a good understanding of the topic. Nonetheless you should always submit your own work!
Use a word processor to answer these questions, attach this questions page to your answers.

Question 1.

In your own words explain what Direct Memory Access (DMA) is. Explain how it works, what are the characteristics (advantages and disadvantages) of DMA, potential complications of DMA. You may need to do some literature research to convey an answer.

Question 2.

Write the pseudo code that describes a “read routine” for a circular buffer.
Hint: You may want to consider the pseudo code of slide 9-27 of your notes as a starting point.

Question 3.

Explain what window-based flow control is.

Question 4.

Explain the differences between actuators, relays, servos, and stepper motors.