

# Case Studies in Computer Science

**Directions:** Create a 3-5 minute presentation that answers each of the following questions. Be sure to address the command term used in each question. The format of this assignment is up to you, options include:

- a) a PowerPoint presentation (or nearpod or other similar presentation that can be downloaded and then posted to the class web site on [hwmath.net/IBCS](http://hwmath.net/IBCS))
- b) a video – which can be downloaded and then posted on [hwmath.net/IBCS](http://hwmath.net/IBCS)
- c) a poster – which will be posted in the classroom, as well as photographed and posted on [hwmath.net/IBCS](http://hwmath.net/IBCS).

## Part 1: Terminology

1. Define the term Radio-frequency identification (RFID)
2. Define the term Internet of Health Things (IoHT)
3. List five examples of IoHT devices
4. Define Near Field Communications
5. List five medical devices that use Near Field Communications
6. Define Robotic controlled surgery

## Part 2: Applications

7. Describe how RFID is used in highway toll both applications
8. Using **one** example, explain how RFID can improve patient safety
9. Using **one** example, explain how RFID can be used in medical diagnosis
10. List some of the standards and protocols supporting Robotic controlled surgery
11. Explain how one standard or protocol supports robotic controlled surgery