Assignment, Brainstorming

Do one of the following:

* Enter your kitchen and look around, seeking problems that could be solved with sensors or sensing systems.
* Gaze at your smart phone, seeking problems that could be solved with sensors or sensing systems.
* Sit in your car or on your bicycle and seek problems that could be solved with sensors or sensing systems.
* Sit in an empty classroom or office, imagine it being full of students or workers, and seek problems that could be solved with sensors or sensing systems.

For the scenario that you chose above, brainstorm at least 15 problems that you identify and determine how they could be solved with a sensor, sensor system or another electronic device.   For each problem, describe each problem in one or two complete sentences that clearly and specifically identifies the problem and how a sensor or sensor system is needed to solve it.

When you have completed the list of 15 problems:

1. Group the problems into categories that have a common theme such as the skill or basic knowledge required to solve the problem.
2. In each category of problems, rate the problems in order of how well suited (you may use "good", "better", "best") they are to a senior design class (both in expertise required to solve the problem as well as overall scope of the problem).
3. Identify the top five problems in terms of marketability (how likely would you be to make lots of money if you solved the problem?).  Provide some justification for your choices.