- 1. How can we differentiate an agent from any other piece of software? What are the special qualities that make it an agent?
 - An agent is something that perceives and acts in an **environment**. An agent has **sensors** that assist the process of perceiving the environment and **actuators** that assist the process of acting on it.
- 2. Provide 3 examples of environments. Describe them accordingly to the properties of environments.

Fully Observable & Partially observable	 -A task environment is fully observable if the sensors detect all aspects that are relevant to the choice of actions. -An environment is partially observable if it's data is not complete due to any kind of scenario.
Single Agent & Multiagent	 -A single agent environment is an environment in which there is ony one agent acting. -A multiagent environment is that in which there is more than one agent action (i.e. Chess).
Deterministic & Stochastic	 -A deterministic environment is that in which the next state of the environment is completely determined by the the current state and the executed state. -A stochastic environment is that in which the next state can't be determined.

- 3. Are there any parts that are not fundamental for agents? i.e. parts you could take away and have the program remain an agent.
- 4. Google the concept of a computational reactive agent, then look in formal sources and write half a page (200 250 words) describing what a reactive agent is, and what other types of agents exist. Include your references.

[ran out of time to complete this part, but here are some ideas]

-Reactive planning refers to a group of technics for action selection by autonomous agents.

- -Agents must have sufficient information available in their local environment to determine an acceptable action.
- -Relationship between individual behaviors, environment and overall behavior is not understandable.
- -It is difficult to build agents that contain many layers due to dynamics and complexity.

Source: http://www.cs.put.poznan.pl/swilk/miasi2/lectures/05-Reactive-and-Hybrid-Agents.pdf