The Systems Development Environment

*These questions are to be completed in the practical class and uploaded to Moodle when completed. Marks will be assigned for completion of the work*

1. What Is Information Systems Analysis and Design? It is when new information systems are being developed or when system are being updated by the system analysis.
2. What is a system and what are its components**? A system is a wide connection of things working together to perform a task. Its components are hardware software processes and tools.**
3. List and explain the different phases in the systems development life cycle**. Planning Analysis Design Implementation Maintenance**
4. What is prototyping? **This is the creation of a working model for testing purposes**
5. List and describe other examples of software life cycle approaches. **The waterfall SDLC is another, its is a looping system.**
6. Why is it important to use systems analysis and design methodologies when building a system? These methodologies are used to avoid confusion and mistakes.
7. Why not just build the system in whatever way seems to be “quick and easy”? Because these systems cost a lot of money and any mistake is very costly, therefore research and planning is essential.
8. What value is provided by using an “engineering” approach? A practical element or approach can be very valuable and logical.
9. A car is a system with several subsystems, including the braking subsystem, the electrical

subsystem, the engine, the fuel subsystem, the climate-control subsystem, and the passenger

subsystem. Draw a diagram of a car as a system and label all of its system characteristics.

1. A personal computer is a system. Draw and label a personal computer as a system as you did for a car in Problem