Module 2

1. Identify two embedded systems that are sold on the market today and analyze their interfaces.

Ans:  
1. MP3 player. It has LCD player, Audio encoder/decoder, SJ one board, SD card slot and playback controls button.  
2. GPS. It has Engine board, GPS Antenna, GSM and Vector Map.

1. Describe all inputs to each system and outputs from each system.

Ans:  
1. MP3 player. Input: playback controls button. Output: LCD and Audio player.  
2. GPS. Input: Engine board and GPS Antenna. Output: Vector Map.

1. Classify the inputs and outputs based on their mode of interaction:

-Visual - describing data carried by visible light

-Audio - describing data carried by sound

-Tactile - describing data carried by touch

-Electronic - describing data encoded in electrical signals

Ans: For example about GPS, the inputs based on "Electronic" because GPS Antenna and Engine board will receipt satellite messages, and then translate the signal. The outputs based on "Visual" because we will see the Vector Map.