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

* Smartphone: Touch and multi-inch screen - Shortcut keys - Microphone and speaker- Easy to hold
* Smart vacuum cleaner: Connect via mobile

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

* Smart Smartphone:

INPUT: Touchpad, power, Bluetooth, Microphone

OUTPUT: speaker, time, make calls, Bluetooth, screen

* Smart vacuum cleaner:

INPUT: keys built into the vacuum cleaner itself - Bluetooth or Wi-Fi, Data from environment

OUTPUT: cleaning the environment- removing pollution

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

* Visual: Information (image)
* Audio: Calls -music
* Tactile: Touchpad
* Electronic: bluetooth- wifi
* Food: 10 Food / day
* Power: Frequency 50Hz