[](https://www.knowitallninja.com/)Range of Uses & Devices

# Task 1

Different types of devices use different types of user interface. Below are listed several different devices. Can you identify what type of device they are and what user interface they most commonly use?

|  |  |  |
| --- | --- | --- |
|  | Type of Device | Common Interface |
| **Smartphone** | Handheld | Graphical User Interface |
| **Game Console** | Entertainment System | Menu Sensor |
| **Central Heating System** | Controlling Device | Menu Sensor |
| **Smartwatch** | Embedded System | Menu  Sensor |
| **Dishwasher** | Domestic Appliance | Menu Sensor |
| **E-Reader** | Handheld | Menu |

# Task 2

(a) Explain what we mean by domestic appliances, controlling devices and embedded systems?

A domestic appliance is a device we use for cooking, cleaning & such forth.

A controlling device will automatically perform some function, such as controlling the temperature of a room.

An embedded system is a computer system that is built into another device.

(b) Why would a graphical user interface not be appropriate for domestic appliances, controlling devices and embedded systems? Give three reasons.

1. These devices usually don’t have very powerful processors & little storage.

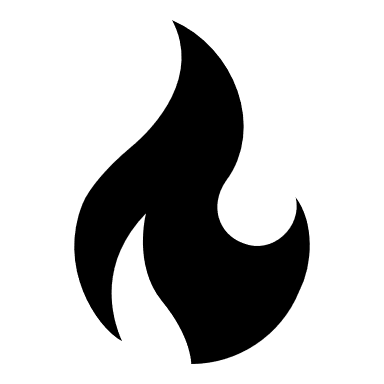
2. They also have very simple displays which cannot show complex graphics.

3. They only have simple inputs which wouldn’t allow you to control a cursor.

# Task 3

You have been asked to design a user interface for a new smart home central heating system. It needs to:

1. Show the current temperature.
2. Show if the heating is currently on.
3. Allow for a person to change the target temperature.

Consider what type of user interface you would use and draw the interface below.

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