Human computer interaction

ASSIGNMENT : 1

ROLL NO   **NAME**

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<u>BAD DESIGNS FROM WEBSITE :</u>

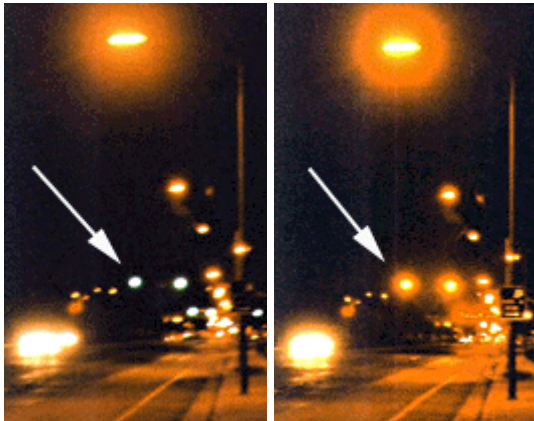| <u>1.</u> | **REASON :**

There are two problems with these doors. The first problem is that the handles are designed for pulling rather than pushing. Doors designed for pushing usually have handles with flat surfaces that look easy to push and hard to pull.

The second problem is that the two sets of doors work in opposite ways. To pass through the walkway you must first PULL open one set of doors and then PUSH open the second set of doors.

SUGGESTIONS:
One way to solve this problem would be to install (swinging) doors that can be opened by both pushing and pulling. |

2. 	**REASON :** The USB connectors are practically universal on computers today. I use one almost everyday to connect a mouse to my laptop computer. My problem is that when I try to plug the USB connector in, I frequently turn it the wrong way. I have seen other people have this problem. It is difficult to tell just by looking which way it plugs in. Usually, manufacturers print the USB symbol on "top" of the connector so if the connector is oriented horizontally, the symbol faces up. That doesn't help if the connector needs to plug in vertically. The USB symbol usually isn't very salient either. **SUGGESTIONS :** If the connector could be inserted either way and work, or if it was asymmetrical, like the mini USB connector in Photo A., which plugs into B., this problem would be solved.
3. 	**REASON :** The problem is that sometimes it is difficult to tell whether a light is a yellow street light or a yellow traffic light. The left photo shows a view down a San Jose street with an arrow pointing out two green traffic lights. In contrast, the right photo shows the same view with yellow traffic lights. Notice how the yellow traffic lights look similar to the street lights. Imagine you are driving along at night and don't notice that the yellow lights ahead are yellow traffic lights. You might be very surprised when they turned red. I wonder if this causes traffic accidents? **SUGGESTIONS:** A solution would be something that helps to distinguish between traffic lights and street lights. Perhaps one solution would be to illuminate the traffic light boxes so they are recognizable.

4.	**REASON :** This is the centre console in a rental car showing how the cup holder is blocking access to the radio and cassette player. It's nice to have a cup holder, but this isn't a very good spot for it. Not only is it hard to use the radio, but if your drink spills, it's going into the cassette player! **SUGGESTIONS :** When you design an object, you need to consider the environment that it is used in.
5.	**REASON :** The main problem is that the cold water handle opens clockwise, whereas the hot water handle opens counter-clockwise. Traditionally, faucets with these cross-shaped handles, both hot and cold, always open counter-clockwise **SUGGESTIONS :** People expect familiar controls like cross-shaped faucet handles to work in a certain way (to open counter-clockwise). When they don't work in the expected way, people have problems. Manufacturers must consider people's expectations. Therefore, when the cross-handles are used, the faucet should be equipped with a cold water valve that opens counter-clockwise. When the lever handles are used, the cold water valve should open clockwise.