IDEAS PRESENTATION
(for ILight)

GROUP 2

FOCUS: IDEA 1: CONSTELLACTION

- Display :
  - The plastic bottles will be bound together and left to float on water
  - When the light sensors are triggered, the individual bottles will light up   with a domino effect
  - The lights can be set up to form a message
- Light up the message with different colored lights (need to set up beforehand) - use cubes, different colors for different messages
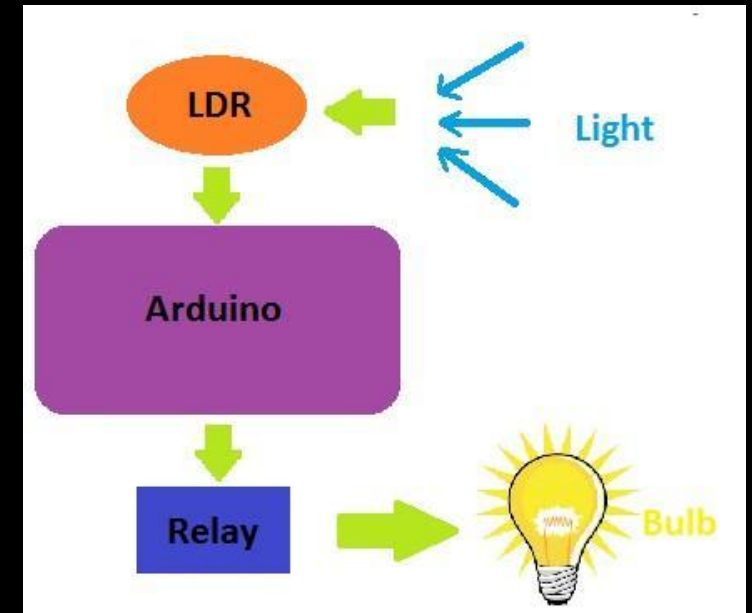
IDEA 1(TECHNICAL)

•Plastic bottles containing LEDs and light sensors
•Program such that there is a delay after the first light up
•Things we need to build this:
1. LDR (light dependent resistor)
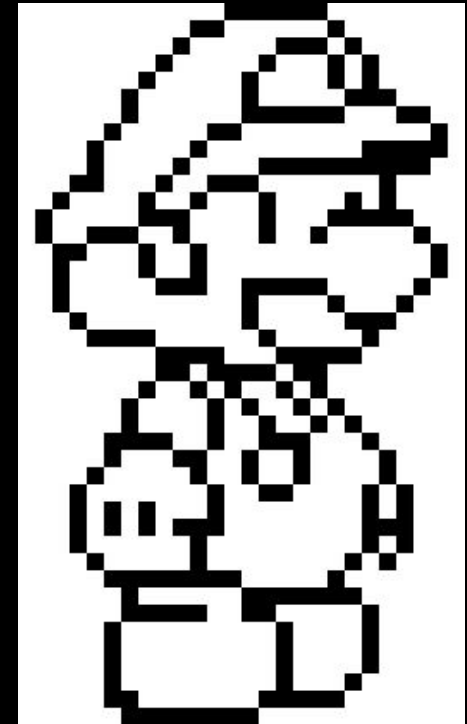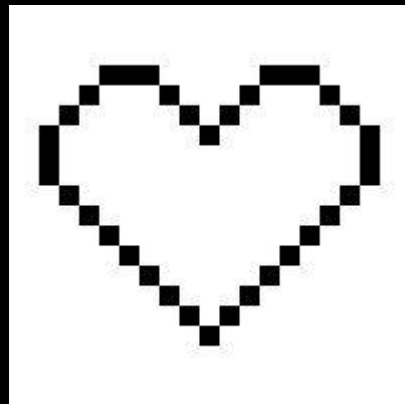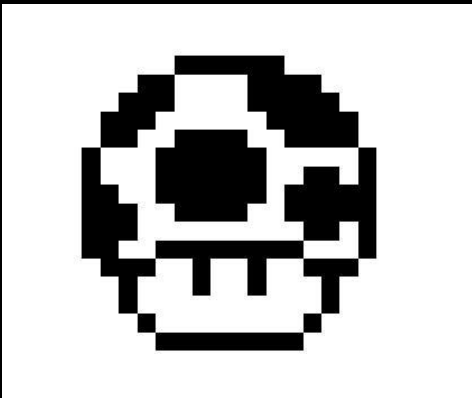2. Arduino
3. Relay
4. Wires
5. Resistor

Resources:
https://diyhacking.com/arduino-ldr-sensor/

•Advance level: Randomly triggering of messages

Ideas for display

•Pixelated pictures and alphabets(at least 2 different colours)

•Concerns: large-scaled for long messages

- Display:
  - 3D iceberg
  - Once pressure sensor is triggered, LED light
  starts to dim, implying the "melting" of the iceberg

  - Display message - eg, do you know how
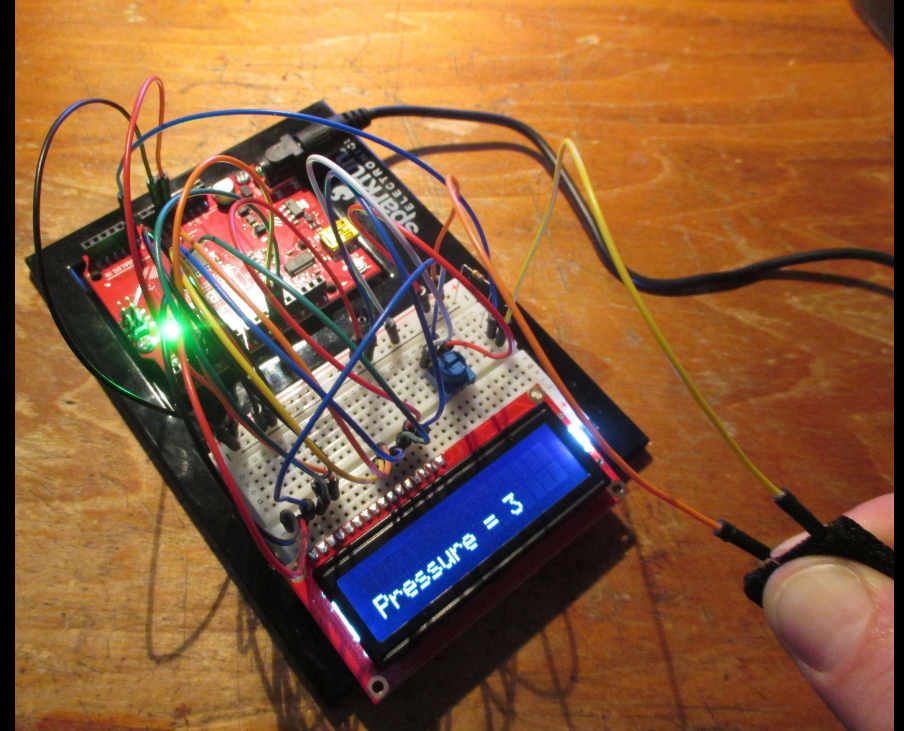 much iceberg are melting each year? etc.

IDEA 2 (TECHNICAL)

- Uses pressure sensors, interactive LED display
- Things to build this:
  1. Arduino
  2. breadboard/the cover to insert the led light together
  3. Potentiometer
  4. Resistor
  5. Jumper Wires
  6. LEDs

Resources:
http://www.instructables.com/id/LED-Pressure-Game/

Concerns:
- If too many people touch it for a prolonged period, it will be hard to show the "melting/freezing" (it will stay dark)

Possible solutions : "Take a step back", crowd control by limiting no. of people near it

IDEA 3: HEAL THE GLOBE

- Same technical concept as the Melting Iceberg
- Display:
  - Can use sound, pressure, light sensor
  - Instead of dimming, the lights will light up when touched
  - The more people touching the globe, the brighter the
  globe shines
  - Represent group effort to protect the earth and its resources for future generations
  - Pros: Social interaction between the art piece and the people
  - Cons: Need a constant group of people touching it

IDEA 4: LED RAINBOW TUNNEL

- Display:
  - LED bridge, stepping on one area with pressure sensors, the area will light up, causing a light wave
  - The nearby areas will be fixed with light sensors
  - So stepping on any specific location wil light up the other lights around it
  - Different segment will have different colours to form rainbow
  - Cons: Big-scaled, need a lot of resources and space

- Uses pressure/light sensors
- Combines technical concepts of Melting Iceberg and Constellaction
- Also can consider motion sensors to light up the LED display

IDEA 4
Advanced

- Advance level: Form black patches when stepped - "pollution"
  - Cool blue LED
  - Carbon footprint
- Concerns: How to make the prototype
  - Small-scaled tunnel, use fingers to "walk"

END OF PRESENTATION