Final Project Techmal (Tech-Animal): Construct a Lego animal, real or imaginary.

Technical specifications:

- Able to move without wheels or alike. The motion could be walking, hoping, jumping, crawling, climbing, protracting, skating, ….
- The move must be initiated by a sensor,
- Able to turn back when hits or is close to an obstacle,
- To get the full credits, the Lego animal must execute a performance, e.g., singing, talking, dancing …

Constraints: Use of parts provided in the Lego Mind-storm set.

Deliverables: Be creative!

1. A power point preliminary presentation (2 minutes) on **11/13 or 11/15** which must have
    - Description of any research/background work carried out by the team
    - Discussion of alternative designs considered by the team
    - Outline of your preliminary design
    - Each member's assignment

    No final product or written report is needed at this time.

2. A written report is due on the same day of Project Demo, 12/4 or 12/6. No late report will not be accepted. The report has to address the following questions,
    - Summary of the overall approach taken by the team
    - Rationale for selecting the chosen design
    - Each member's contribution,
    - Relationship between technologies and societies, e.g, impacts of technologies on societies, use or misuse of technologies…

3. An in-class demo of your Techmal on **12/4 or 12/6**

Return you Lego set immediately.

http://www.engineering.uiowa.edu/~eng_0055/2022/video/Techdog.wmv

http://www.engineering.uiowa.edu/~eng_0055/2022/video/Wall-e.wmv

http://www.engineering.uiowa.edu/~eng_0055/2022/video/Human.mp4

http://www.engineering.uiowa.edu/~eng_0055/2022/video/Fighting.mp4

http://www.engineering.uiowa.edu/~eng_0055/2022/video/Fighting1.mp4