**Writing Task:**

1. What are the coordinates of *P* in the coordinate system *O*?
   1. (1, 3)
2. What are the coordinates of *P* in the coordinate system *A*?
   1. (-1, 2)
3. What are the coordinates of *P* in the coordinate system *B*?
   1. ~ (-0.5, 0.5)
4. What is *MAB*? (Derive and find the matrix).
5. Use MAO and MBA to represent MOB.
   1. (MBA \* MAO)-1

**Instructions for Programming Task**

* Use Arrow Keys to traverse through the robot’s body parts and their children
* Use A & D to rotate the selected body part