# In-Class-8

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1. Calculate the State Transition Matrix

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| State Matrix | No Action | Reaching | Grasping | Grasped |
| No Action | 8/14 | 1/14 | 0 | 0 |
| Reaching | 0 | 2/14 | 1/14 | 0 |
| Grasping | 0 | 0 | 1/14 | 1/14 |
| Grasped | 0 | 0 | 0 | 0 |

1. Calculate the Emission Matrix.

|  |  |  |  |
| --- | --- | --- | --- |
| Emissions Matrix | 000 | 011 | 100 |
| No Action | 8/9 | 0 | 1/9 |
| Reaching | 1/3 | 1/3 | 1/3 |
| Grasping | 0 | 2/2 | 0 |
| Grasped | 1/1 | 0 | 0 |