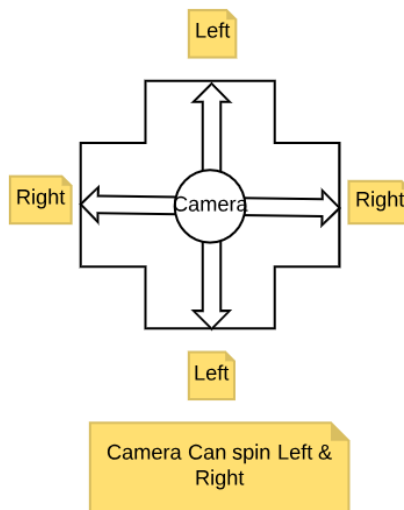


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Section: D



Here it is my environment where have 4 roads and in middle I have an AI camera which can detect jam and location. And camera can spin from Left to Right & Right to Left.

Environment:

Road, Vehicle, Traffic jam, No traffic, Signal Light.

Percept:

Location, Traffic Condition.

Sensor:

Camera, Location detector, Traffic Detector.

Action:

Turn on & off (Green & red light), Spin left, Spin right.

Actuator:

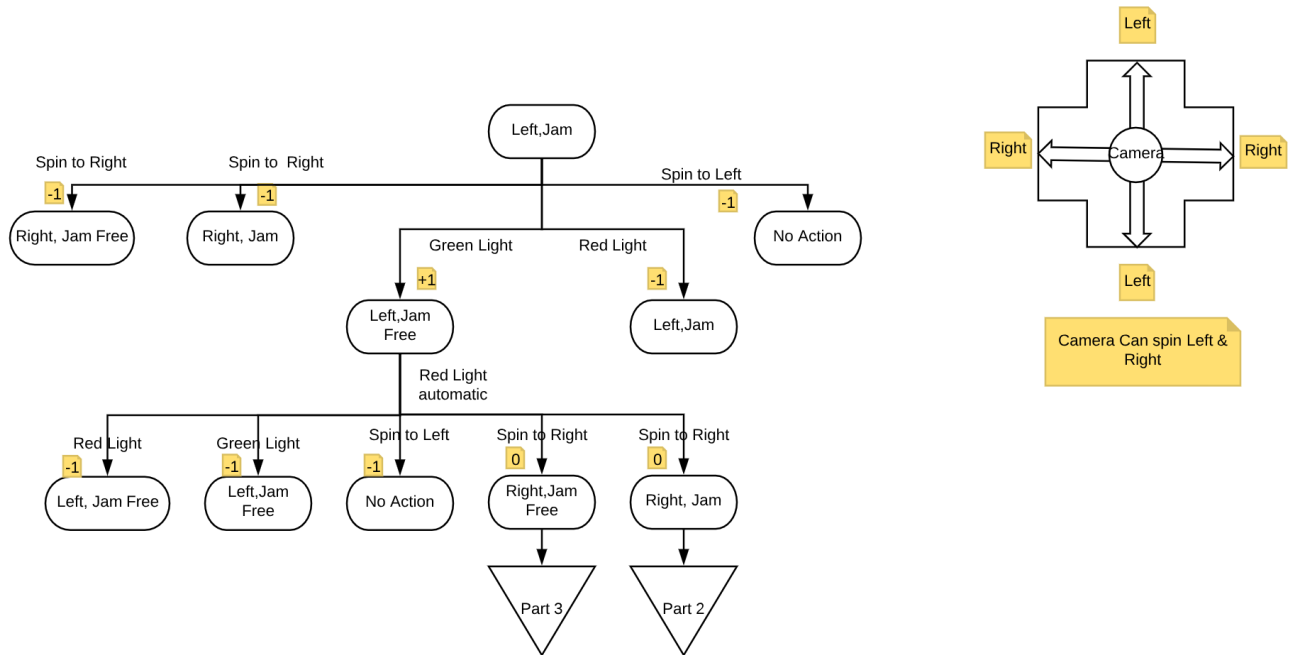
Circuit & programming inside hardware agent, Motor for spin, Bulbs, Lens of Camera.

Agent:

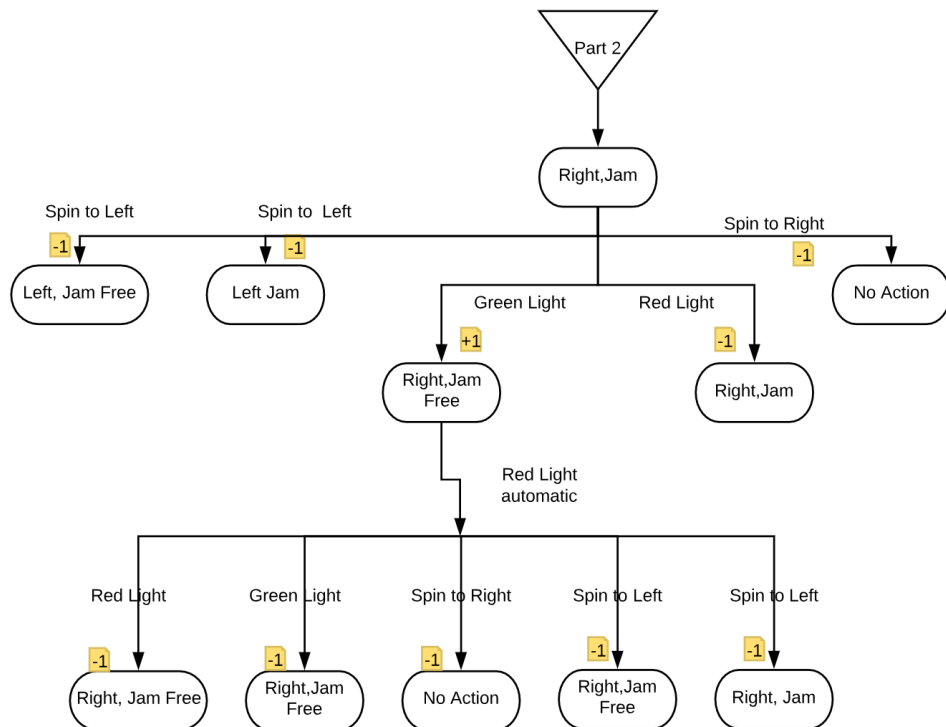
AI camera.

Tree is given below:

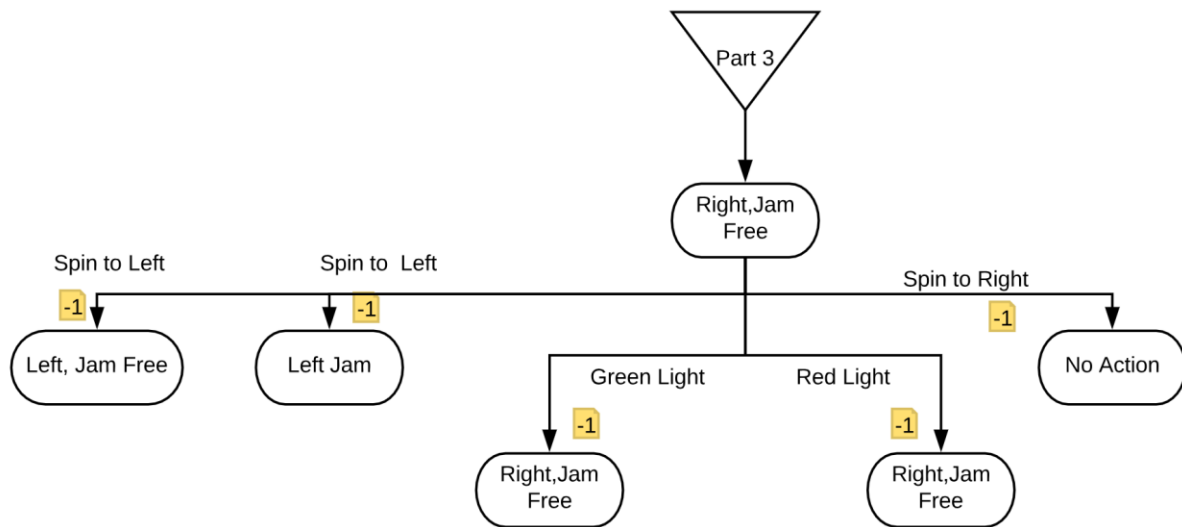
I assume initial condition is (Left, Jam)



Part 2:



Part3:



Function is given below:

```
function Action(location, Percept){  
    if (Percept == "Jam"){  
        action = "Green light"  
        //green light will be turn on until jam free but after jam free it will be turn off  
    }  
    else if (Percept == "Jam Free"){  
        action = "Spin"  
        //it can be spin from Left to right and Right to left for find jam.  
    }  
    else if(location == "Left"){  
        action = "Right"  
    }  
    else if(location == "Right"){  
        action = "Left"  
    }  
  
    return action  
}
```