Define an abstract data type for robot.

(This is very broad, and you have a lot of latitude in your answer.)

* Consider the data attributes of the robot. What data would it store? What information might be available via sensors?
* Consider the actions programmed for the robot. What functions would it recognize?

The robot would be the abstract data type here with the underlaying features, and requirements of the robot defined.

I’m submitting it this way because I want to learn and make sure I have the right idea.

public abstract class Robot {

public double BatteryStatus;

public double IntegrityCheck;

public int SerialNumber;

public int HourUptime;

public int YearCreated;

public String RobotType; }

public class RobotSensors extends Robot {

public int LeftEyeSensor;

public int RightEyeSensor; }

public class RobotLimbs extends Robot {

private int LeftLegSensorPosition;

private int RightLegSensorPosition;

private int LeftArmSensorPosition;

private int RightArmSensorPosition;

private double HeadDegreePosition; }

@Override

public int BatteryPercentage

public int IntegrityStatus

public int SensorView? (capturing what each sensor sees)

public int LimbDegree (capturing how to move the arms and legs?)