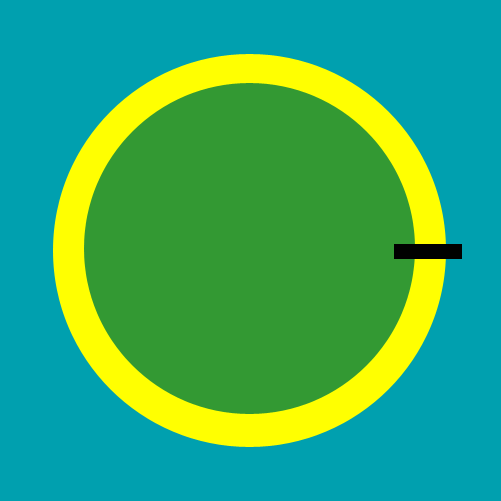
**ROBOTICS MINI PROJECT**

**Aim:-** Create a robot which will move only on Yellow path in given image.



**Code:-**

package roboticsprac1;

import ch.aplu.robotsim.Gear;

import ch.aplu.robotsim.LegoRobot;

import ch.aplu.robotsim.LightSensor;

import ch.aplu.robotsim.RobotContext;

import ch.aplu.robotsim.SensorPort;

public class yellowpathfollower {

static {

RobotContext.useBackground("sprites/yellowpath.gif");

RobotContext.setStartPosition(430,230);

RobotContext.setStartDirection(-90);

}

public yellowpathfollower() {

LegoRobot legoRobot = new LegoRobot();

Gear gear = new Gear();

LightSensor lightSensorL = new LightSensor(SensorPort.S2);

LightSensor lightSensorR = new LightSensor(SensorPort.S1);

LightSensor lightSensorM = new LightSensor(SensorPort.S3);

legoRobot.addPart(gear);

legoRobot.addPart(lightSensorL);

legoRobot.addPart(lightSensorR);

legoRobot.addPart(lightSensorM);

gear.forward();

gear.setSpeed(100);

double arcLength = 0.1;

while (true) {

int lightSensorRValue = lightSensorR.getValue();

int lightSensorDiff = lightSensorRValue - lightSensorL.getValue();

if (lightSensorM.getValue() < 100) {

gear.stop();

}

if(lightSensorDiff > 100) {

gear.rightArc(arcLength);

}

else if (lightSensorDiff < -100) {

gear.leftArc(arcLength);

}

else {

if (lightSensorRValue > 500) {

gear.forward();

}

}

}

}

public static void main(String[] args) {

new yellowpathfollower();

}

}

**OUTPUT:**

