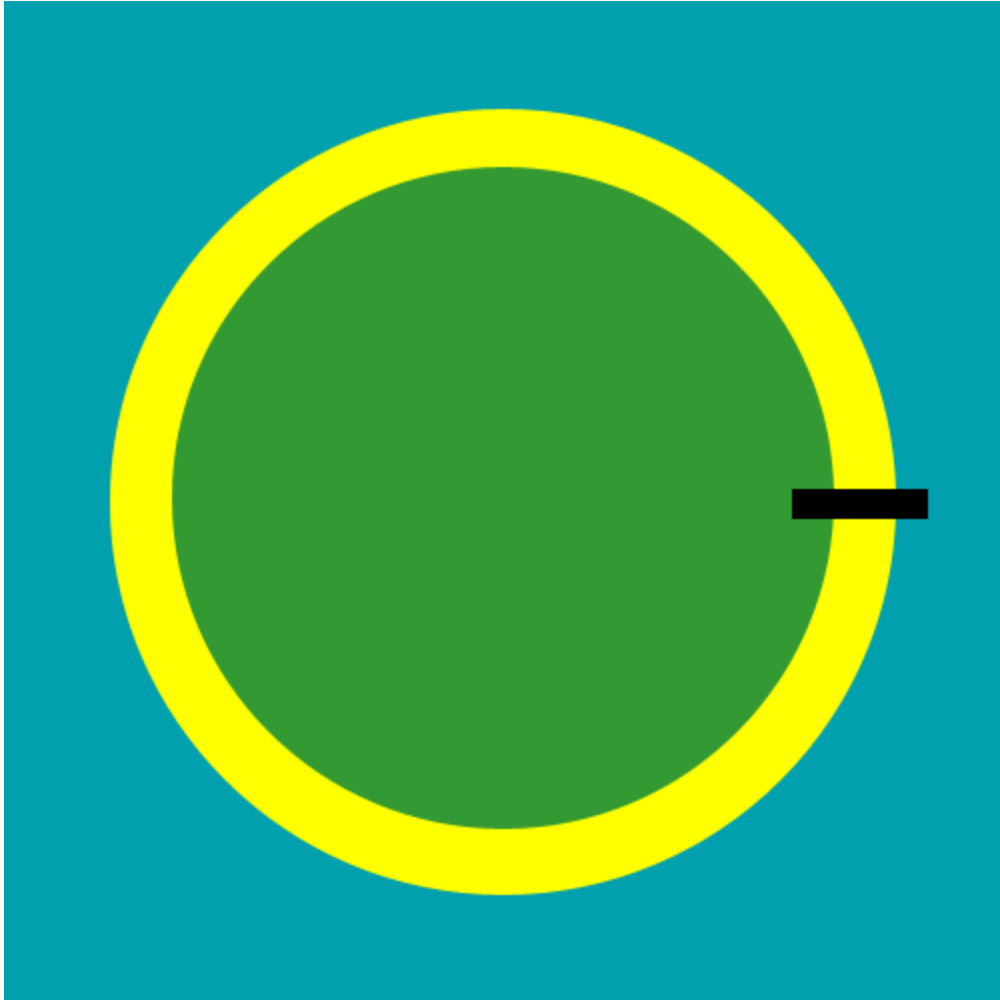# Robotics Mini Project

Aim: Create a robot which will move only on yellow path in given image.

Source Code:

```java
import ch.aplu.robotsim.*;
public class MiniProject {
    public MiniProject()
    {
        NxtRobot robot=new NxtRobot();
        Gear gear=new Gear();
        LightSensor ls1=new LightSensor(SensorPort.S1);
        LightSensor ls2=new LightSensor(SensorPort.S2);
        robot.addPart(gear);
        robot.addPart(ls1);
        robot.addPart(ls2);
        gear.forward();

        while(true)
        {
            int rightValue=ls1.getValue();
            int leftValue=ls2.getValue();
            int d=rightValue - leftValue;
            if(d>100)
                gear.rightArc(0.1);
            if(d < -100)
                gear.leftArc(0.1);
            if(d > -100 && d < 100 && rightValue > 500)
                gear.forward();
        }
    }
    public static void main(String args[])
```

```
    {
        new MiniProject();
    }
    static
    {
        NxtContext.setStartPosition(430,230);
        NxtContext.setStartDirection(-90);
        NxtContext.useBackground("sprites/yellowpath.gif");
    }
}
```

Output: