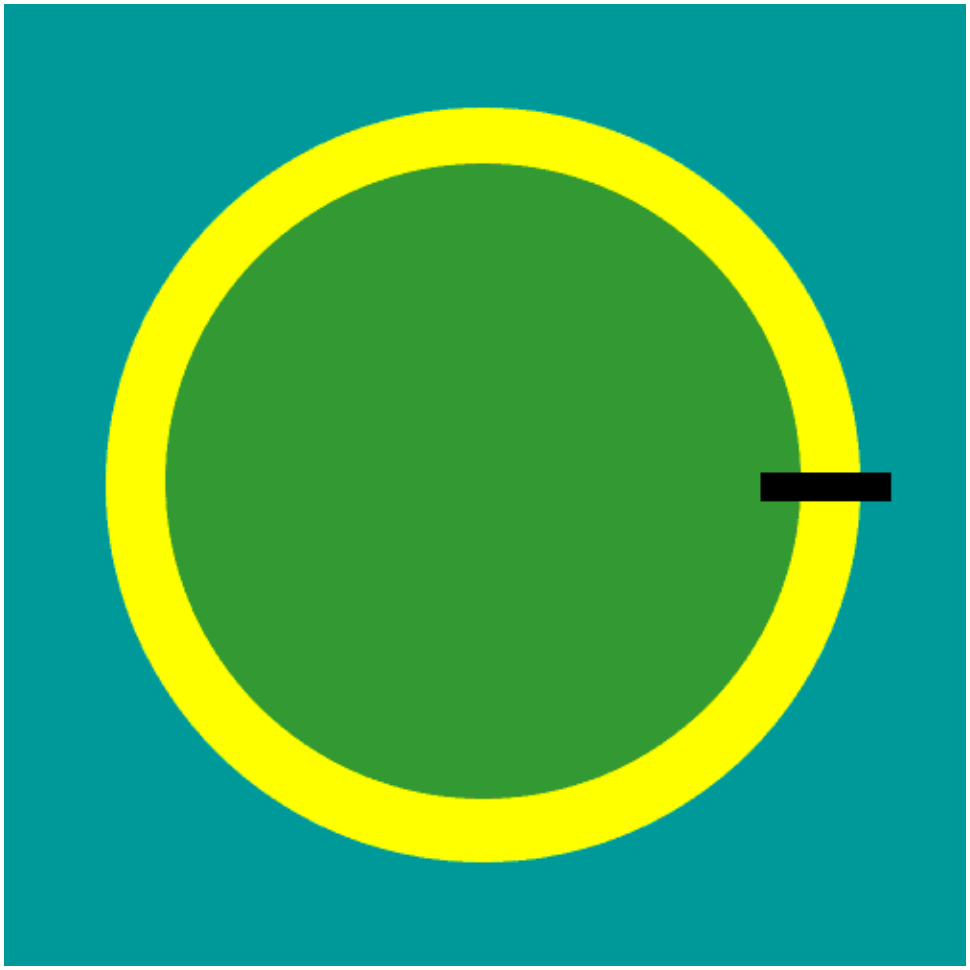
Robotics Mini Project

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



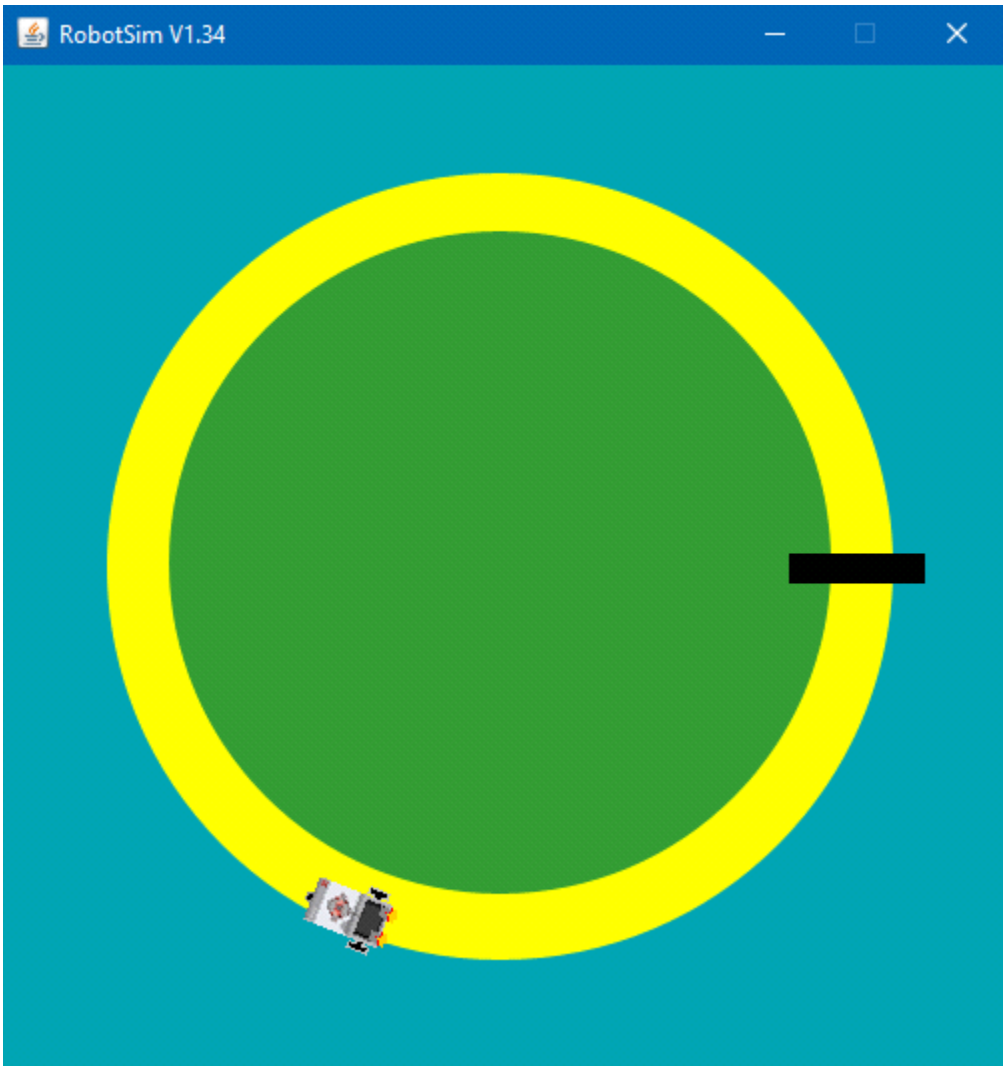
Source Code:

```
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:


RobotSim V1.34