# MiniProject

# Robotics

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

**Source Code:**

```java
package Robotics;

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:**