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Class :- MSC CS Part 2 Subject :- Robotics

Robotics Mini Project

Code :-

```
package miniproject;

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:-