## 6.8 Line follower

#### 6.8.1 Tasks:

1. Write the program to control the robot follow the line (actually above the edge between black and white area). Some programming hints you can find in prog. 1:

Program 1: Line Follower.

```
1
       #include "RobotMovingFunctions.h"
2
       const int LIGHT_SENSOR_PIN = A0;
3
       const int SURFACE_BRIGHTNESS_REFERENCE = 400;
4
5
       void setup()
6
7
         setIOpins();
8
         pinMode(LIGHT_SENSOR_PIN , INPUT);
9
10
       void loop()
11
12
13
         int light_sensor_value = analogRead(LIGHT_SENSOR_PIN );
         if ( light_sensor_value < treshold_value )</pre>
14
15
           // do this if robot is over the black line
16
         }
17
         else
18
19
20
           // do this if robot is over white area
21
       }
22
```

# 6.8.2 Questions:

- 1. What is the program function to get the light\_sensor\_value?
- 2. Determine the movements of the robot if the robot is over the black area and if the robot is over the white area.

## **6.8.3 Summary:**

#### **6.8.3.1 <++>** <++>

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# 6.8.4 Issues:

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