ARTIFICIAL INTELLIGENCE AND PROGRAMMING ROBOT

PRACTICAL NO 5

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**Practical No. 5**

**Aim:**

Write  a program to create a robot that does a circle using 2 motors.

**Theory:**

Motors are one of the primary mechanisms by which robots move. Some motors can be attached to wheels that drive a robot around. Other motors might cause joints in a robot limb to move. Yet others might move the control surfaces of a robotic airplane or submarine. A robot might have many different kinds of effectors to perform specific tasks, but many of these effectors are being moved around by motors.

To make a robot go in circle using two motors we set one of the motors at lower speed then the other.

**Code:**

package circlewithmotor;

/\*\*

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\* @author STreK

\*/

import ch.aplu.robotsim.\*;

public class CircleWithMotor {

public CircleWithMotor(){

LegoRobot robot = new LegoRobot();

Motor mot1 = new Motor(MotorPort.A);

Motor mot2 = new Motor(MotorPort.B);

robot.addPart(mot1);

robot.addPart(mot2);

try{

Thread.sleep(5000);

} catch (InterruptedException ex) {

ex.printStackTrace();

}

while(true){

mot1.forward();

mot1.setSpeed(100);

mot2.forward();

mot2.setSpeed(50);

}

}

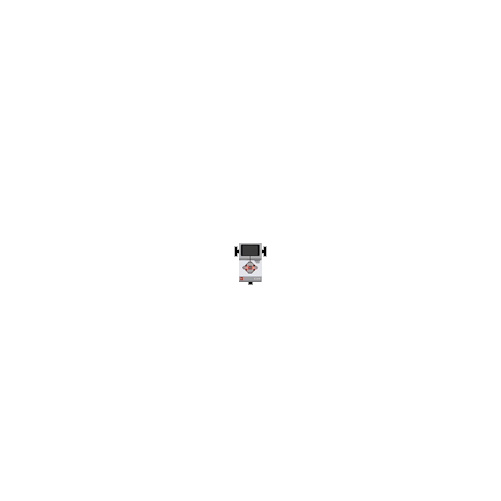
public static void main(String[] args) {

new CircleWithMotor();

}

}

**Output:**



**Conclusion:**

We successfully used two motors one with lower speed then other to make the Lego robot go in a circle.