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.

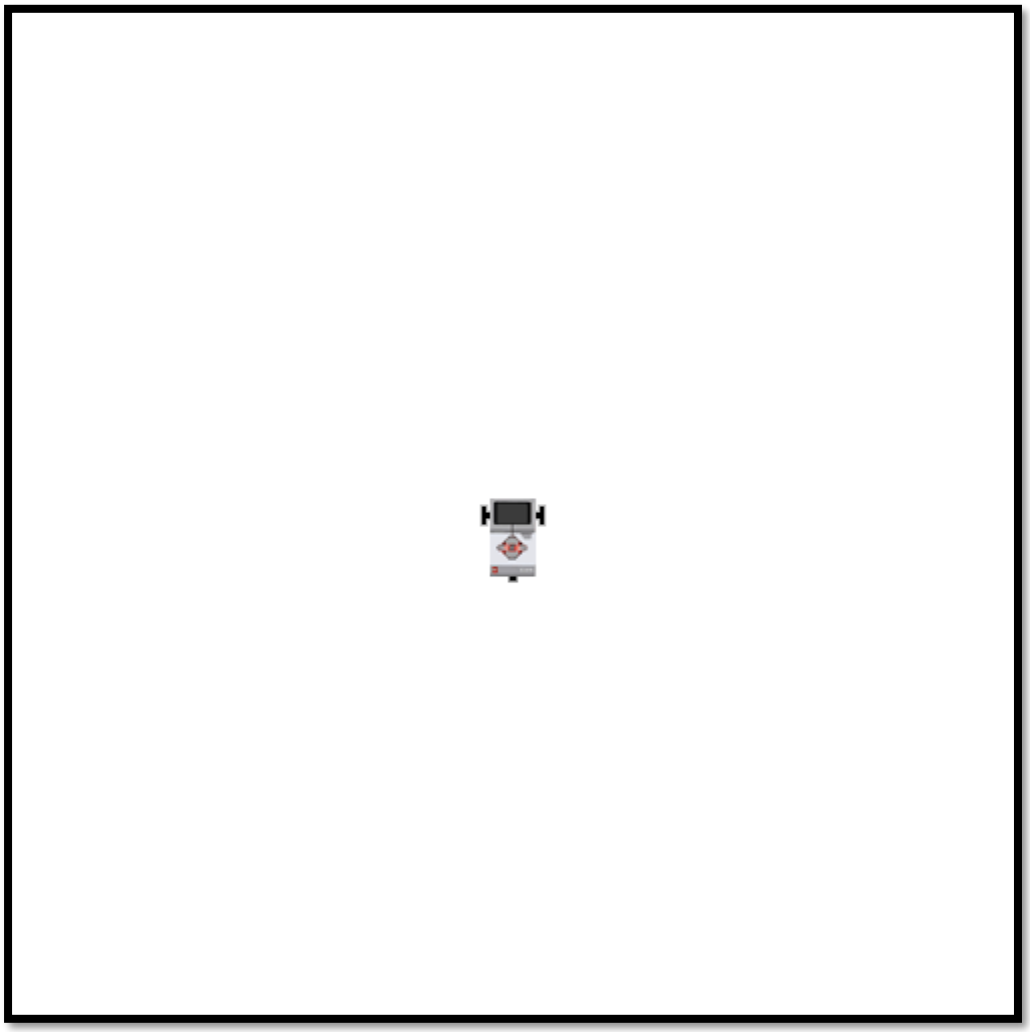
To make a robot go in circle using two motors we set one of the motors at lower speed then the other.

Code:

```
package circlewithmotor;
/**
 *
 * @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.