

```

on radio received name value
  if name = "x" then
    set xValue to value
  else if name = "y" then
    set yValue to value
  else if name = "B1" then
    set buttonStateB1 to value
  else if name = "B2" then
    set buttonStateB2 to value
  else if name = "B3" then
    set buttonStateB3 to value
  else if name = "B4" then
    set buttonStateB4 to value
  +
  if buttonStateB1 = 0 then
    RoboCar rotateLeft speed 200
  else if buttonStateB4 = 0 then
    RoboCar rotateRight speed 200
  else
    set targetSpeed to square root of (xValue * xValue + yValue * yValue) / 1.67
    if absolute of xValue > threshold or absolute of yValue > threshold then
      if yValue < 0 - threshold and xValue > threshold then
        RoboCar forwardRight speed 255
        RGB_Program show color yellow
      else if yValue < 0 - threshold and xValue < 0 - threshold then
        RoboCar forwardLeft speed 255
        RGB_Program show color white
      else if yValue > threshold and xValue > threshold then

```

```

on start
  set xValue to 0
  set yValue to 0
  set buttonStateB2 to 1
  set buttonStateB3 to 1
  set buttonStateB1 to 1
  set smoothingFactor to 0.1
  set threshold to 100
  radio set group 1
  radio set frequency band 50
  show icon

```

```

forever
  pause (ms) 40
  show number currentSpeed

```

