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`Pat's Rock & Roll Marble Machine-Infrared Servo -1
`Pat McMahon version 2- 11/9/2015
`This demonstration uses the 14M2 chip & Remote M.
`The servo goes from the lower limit(50) of the servo
`to the upper limit(170) of the servo.
`This demo uses pin 1,hence servo 1.

symbol delay=1500
symbol times=6
main:
infrain2
if infra=117 then Backwards
if infra=116 then Forwards
if infra=20 then AutomaticOne
if infra=21 then AutomaticSix
if infra=76 then FirstLights
if infra=77 then RockerLights
if infra=78 then SecondLights
if infra=79 then ThirdLights
if infra=54 then AllLightsOn
if infra=24 then AllLightsOff
if infra=60 then LightsRun
FirstLights:
high 5 goto main
RockerLights:
high 2 goto main
SecondLights:
high 3 goto main
ThirdLights:
high 4 goto main
AllLightsOn:
high 2 high 3 high 4 high 5
goto main
AllLightsOff:
low 2 low 3 low 4 low 5
goto main
LightsRun:
high 5 pause 100 low 5 high 3 pause 100 low 3 high 4 pause 100 low 4
goto main
Forwards:          `MANUAL FORWARD
high 2 high 3 high 4 high 5
pause 300
servo 1,50          `move servo to one end
pause 300
goto main
Backwards:         `MANUAL BACKWARDS
high 2 high 3 high 4 high 5
pause 300
servo 1,170         `move servo to other end
pause 300
goto main          `loop back to start
AutomaticOne:      `AUTO-ONE MARBLE
let b1=0
do
servo 1,50          `move servo to one end
pause delay
servo 1,170         `move servo to other end
pause delay
inc b1
loop while b1<times
high 2 high 5 pause 1300 low 5 high 3 pause 1800 low 3 high 4 pause 2200 low 4
wait 4
goto AutomaticOne `loop back to start
goto main
AutomaticSix:      `AUTO-SIX MARBLES
high 2 high 3 high 4 high 5
servo 1,50          ` move servo to one end
pause delay
servo 1,170         ` move servo to other end
pause delay
wait 7
goto AutomaticSix ` loop back to start

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