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/4 Point Walk routine for Lynxmotion Brat using the Scon SB020 Board
/Servos Ankle-Left Servo 1; Right Servo 2; Knee-Left Servo 3; Right Servo 4
/Servos connections Left Hip=Servo 5 – Right Hip Servo 6

wait 100          /A delay so it does not start right away
DSR1=50           /Set DSR1 speed to 50 (DSR1 is the default moving speed)
move  10150       /goto standing position (Use Memory Element 10150)
wait 10

/This is the forward walk routine
do 5              /Set up a loop counter This is the number of steps
Move 10,100       /Move using DSR1 (default rate)
Move 10,101       /Move using DSR1 (default rate)
Move 10102        /Note that the (, comma) is optional
Move 10103
Loop              /Back to the Do until finished
move  10150       /Go to standing position

/This is the backward walk routine
address 50        /Placed at 50 so that "Run at line number" control can be
used
DSR1=50           /Set DSR1 to 50
do 10             /Set up a loop counter this is the number of steps
Move 10103        /Move using DSR1 (default)
Move 10102        /Move using DSR1 (default)
Move 10101
Move 10100
DSR1+5            /Increase the speed by 5
Loop              /Back to the Do until finished
move  10150       /Go to standing position

/This is the forward walk routine again
do 5              /Set up a loop counter This is the number of steps
Move 10,100       /Move using DSR1 (default)
Move 10,101       /Move using DSR1 (default)
Move 10102
Move 10103
Loop              /Back to the Do until finished
move  10150 /goto standing position
stop
End

/End of the program now set the servo positions
/The address command indicates whish memory element to start placing data
/The pulse (in ms) that the servo receives is 1/10000 of the value
/Example 14457 is 1.4557 milliseconds

Address 10,100    /Walk positions
/First will be in element 10,100; Second will be 10,101
Position s1=14450 s2=14420 s3=17220 s4=17220 s5=16990 s6=17500
Position s1=15560 s2=15800 s3=17220 s4=17220 s5=16990 s6=17500
Position s1=15560 s2=15800 s3=12780 s4=12780 s5=12500 s6=13010
Position s1=14220 s2=14450 s3=12780 s4=12780 s5=12500 s6=13010

address 10150     /Standing position
Position s1=15000 s2=15000 s3=15000 s4=15000 s5=15000 s6=15000

/Questions and comments always welcome at service@sconcon.com

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