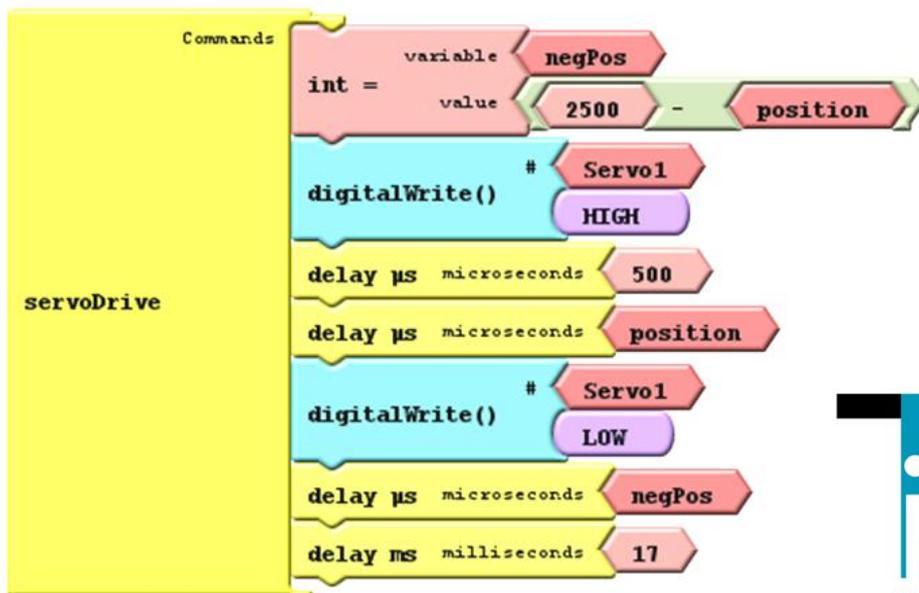


This program drives the servo to predetermined positions when the button is alternately pushed.

Put the drive component of the Servo2 project into a subroutine. This subroutine will take around 20ms to complete.



The position of the servo horn will be determined by time, so state the two positions in terms of time.

For this project the positions will be

"position1 = 200"

and

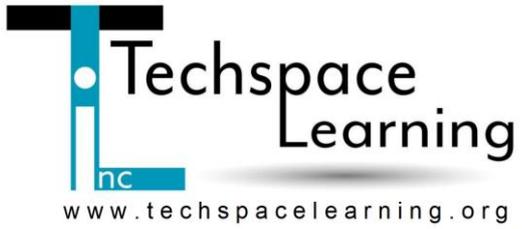
"position2 = 1800".

These variables can be changed to fine tune the position of the servo horn.

If the pulse does not repeat enough times, the servo cannot move the horn to the correct position.

If the pulse repeats 50 times, it will take one second (50 x 20ms = 1000ms). That should give the horn enough time to travel to the correct position. The "driveReps" variable determines how many times the pulse repeats.

In this project the "driveReps" is set to 30.



```

    setup
    int = variable Servo1
        value 8
    int = variable button
        value 2
    int = variable position1
        value 200
    int = variable position2
        value 1800
    int = variable driveReps
        value 30
    int = variable Open
        value 4
    int = variable Closed
        value 5

    loop
    int = variable position
        value position1
    test digitalRead() # button == LOW
    while Commands delay ms milliseconds 10
    repeat times driveReps Commands servoDrive
    digitalWrite() # Open LOW
    digitalWrite() # Closed HIGH
    delay ms milliseconds 500
    int = variable position
        value position2
    test digitalRead() # button == LOW
    while Commands delay ms milliseconds 10
    repeat times driveReps Commands servoDrive
    digitalWrite() # Open HIGH
    digitalWrite() # Closed LOW
    delay ms milliseconds 500
    
```