Matlab to Matlab

Open port to UART bridge

Use s.writeline() to send a message

```
s.writeline("Hello World"); % send message to serial port
```

Use s.readline() to read a message

```
data = s.readline() % read message from serial port

data =
"100,20,4"
```

Pico to Matlab

Open port to pico

Use s.writeline() to send a message to pico

```
s.writeline("Hello I am a computer!"); % write message to Pico
```

Use s.readline() to read message from pico

```
data = s.readline() % read message from Pico
```

Use s.readline() to read message from pico and modify the message

```
rxmsg = s.readline() % read message from Pico
 rxmsg =
     "100,20,4
 items = 3×1 string
 "100"
 "20"
 "4"
 items = split(rxmsg,',') % split message into array
 values = arrayfun(@str2num,items) % apply function to each element in array
 (convert string to a number)
 values = 3 \times 1
    100
     20
      4
Use s.readline() to read message from pico
```

```
rxmsg = s.readline() % read message from Pico
rxmsg =
   "100,20,4
```

Create message with formatted print sprintf()

```
var1 = sqrt(3);
var2 = 5;
msgrx =
'1.732051,5'
msgrx = sprintf('%f,%d',var1,var2) % format data into string or character vector
s.writeline(msgrx) % write msgrx to Pico
```