Import data from spreadsheet

Script for importing data from the following spreadsheet:

```
Workbook: C:\Users\99003197\Downloads\Sensor_record_20201214_133122_AndroSensor.xlsx
Worksheet: Sensor_record_20201214_133122_A
```

Auto-generated by MATLAB on 21-Dec-2020 12:08:30

Contents

Set up the Import Options and import the data

```matlab
opts = spreadsheetImportOptions("NumVariables", 39);

% Specify sheet and range
opts.Sheet = "Sensor_record_20201214_133122_A";
opts.DataRange = "A1:AM7395";

% Specify column names and types
opts.VariableNames = ["ACCELEROMETERXms1", "ACCELEROMETERYms", "ACCELEROMETERZms", "GRAVITYXms", "GRAVITYYms", "GRAVITYZms", "LINEARACCELERATIONXms", "LINEARAC
opts.VariableTypes = ["double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double", "double

% Specify variable properties
opts = setvaropts(opts, ["LOCATIONLatitude", "LOCATIONLongitude", "LOCATIONAltitudeM", "LOCATIONSpeedKmh", "LOCATIONAccuracyM", "LOCATIONORIENTATION", "YYYYMOD
opts = setvaropts(opts, ["LOCATIONLatitude", "LOCATIONLongitude", "LOCATIONAltitudeM", "LOCATIONAltitudegoogleM", "LOCATIONSpeedKmh", "LOCATIONAccuracyM", "LOC

% Import the data
tbl = readtable("C:\Users\99003197\Downloads\Sensor_record_20201214_133122_AndroSensor.xlsx", opts, "UseExcel", false);
```

Convert to output type

```matlab
ACCELEROMETERXms1 = tbl.ACCELEROMETERXms1;
ACCELEROMETERYms = tbl.ACCELEROMETERYms;
ACCELEROMETERZms = tbl.ACCELEROMETERZms;
GRAVITYXms = tbl.GRAVITYXms;
GRAVITYYms = tbl.GRAVITYYms;
GRAVITYZms = tbl.GRAVITYZms;
LINEARACCELERATIONXms = tbl.LINEARACCELERATIONXms;
LINEARACCELERATIONYms = tbl.LINEARACCELERATIONYms;
LINEARACCELERATIONZms = tbl.LINEARACCELERATIONZms;
GYROSCOPEXrads = tbl.GYROSCOPEXrads;
GYROSCOPEYrads = tbl.GYROSCOPEYrads;
GYROSCOPEZrads = tbl.GYROSCOPEZrads;
LIGHTlux = tbl.LIGHTlux;
MAGNETICFIELDXT = tbl.MAGNETICFIELDXT;
MAGNETICFIELDYT = tbl.MAGNETICFIELDYT;
MAGNETICFIELDZT = tbl.MAGNETICFIELDZT;
ORIENTATIONZazimuth = tbl.ORIENTATIONZazimuth;
ORIENTATIONXpitch = tbl.ORIENTATIONXpitch;
ORIENTATIONYroll = tbl.ORIENTATIONYroll;
PROXIMITYi = tbl.PROXIMITYi;
SOUNDLEVELdB = tbl.SOUNDLEVELdB;
LOCATIONLatitude = tbl.LOCATIONLatitude;
LOCATIONLongitude = tbl.LOCATIONLongitude;
LOCATIONAltitudeM = tbl.LOCATIONAltitudeM;
LOCATIONAltitudegoogleM = tbl.LOCATIONAltitudegoogleM;
LOCATIONSpeedKmh = tbl.LOCATIONSpeedKmh;
LOCATIONAccuracyM = tbl.LOCATIONAccuracyM;
LOCATIONORIENTATION = tbl.LOCATIONORIENTATION;
SatellitesInRange = tbl.SatellitesInRange;
TimeSinceStartInMs = tbl.TimeSinceStartInMs;
YYYYMODDHHMISS_SSS = tbl.YYYYMODDHHMISS_SSS;
VarName32 = tbl.VarName32;
VarName33 = tbl.VarName33;
VarName34 = tbl.VarName34;
VarName35 = tbl.VarName35;
Time = tbl.Time;
Sound_level = tbl.Sound_level;
Light_level = tbl.Light_level;
Time1 = tbl.Time1;
```

Location 99003203

```matlab
mag=sqrt(ACCELEROMETERXms1.^2+ACCELEROMETERYms.^2+ACCELEROMETERZms.^2)

figure
LOCATIONLatitude=13.04
LOCATIONLongitude=77.61
geoplot(LOCATIONLatitude,LOCATIONLongitude,'--or');
```

light sensor 9900185

```matlab
figure
data = xlsread('C:\Users\99003197\Downloads\Sensor_record_20201214_133122_AndroSensor.xlsx');
[value] = data(:,38);
[time] = data(:,39);
%Setting the initial value to the counter
i = 1;

%For loop to test all the values in the table
for loop = 1:159

    %condition to check the value in the variable
    if (value(i)>0 && value(i)<=1000)
        disp(value(i))
        disp('adjust the screen brightness to 5%')
        a=5;
        %increasing the counter value by 1
        i = i+1;

    elseif (value(i)>1001 && value(i)<=2000)
        disp(value(i))
        disp('adjust the screen brightness to 10%')
        a=10;
        i = i+1;

    elseif (value(i)>2001 && value(i)<=3000)
        disp(value(i))
        disp('adjust the screen brightness to 15%')
        a=15;
         i = i+1;

    elseif (value(i)>3001 && value(i)<=4000)
        disp(value(i))
        disp('adjust the screen brightness to 20%')
        a=20;
        i = i+1;

    elseif (value(i)>4001 && value(i)<=5000)
        disp(value(i))
        disp('adjust the screen brightness to 25%')
        a=25;
        i = i+1;

    elseif (value(i)>5001 && value(i)<=6000)
        disp(value(i))
        disp('adjust the screen brightness to 30%')
        a=30;
        i = i+1;

    elseif (value(i)>6001 && value(i)<=7000)
        disp(value(i))
        disp('adjust the screen brightness to 35%')
        a=35;
        i = i+1;

    elseif (value(i)>7001 && value(i)<=8000)
        disp(value(i))
        disp('adjust the screen brightness to 40%')
        a=40;
        i = i+1;

    elseif (value(i)>8001 && value(i)<=9000)
        disp(value(i))
        disp('adjust the screen brightness to 45%')
        a=45;
        i = i+1;

    elseif (value(i)>9001 && value(i)<=10000)
        disp(value(i))
        disp('adjust the screen brightness to 50%')
        a=50;
        i = i+1;

    else
        disp(value(i))
        disp('adjust the screen brightness to max')
        a=70;
        i = i+1;
    end
end
plot(time,value);
xlabel('Intensity of Surrounding Light')
```

```
ylabel('screen intensity')
title('Screen Brightness Adjuster')
```

Sound level 9900187

```
figure
Sound_level = xlsread ('C:\Users\99003197\Downloads\Sensor_record_20201214_133122_AndroSensor.xlsx');
[x]=Sound_level(:,36);
[y]=Sound_level(:,37);
plot(x,y);
xlabel('Time')
ylabel('sound_level')
title('Music range')

i=1;
for sound=2:67
    if (y(i)>25 && y(i)<=35)
        disp(y(i))
        disp('no music or no one is talking')
        i = i+1;
    elseif (y(i)>35 && y(i)<=45)
        disp(y(i))
        disp('someone is talking')
         i = i+1;
    elseif (y(i)>45 && y(i)<=65)
        disp(y(i))
        disp('low beat song')
         i = i+1;
    else
        disp(y(i))
        disp('up beat song')
        i = i+1;
    end
end
```

Accelerometer 99003156

```
figure

[input0_0] = xlsread('C:\Users\99003197\Downloads\Sensor_record_20201214_133122_AndroSensor.xlsx','A122:C160');
[input0_1] = xlsread('C:\Users\99003197\Downloads\Sensor_record_20201214_133122_AndroSensor.xlsx','AD122:AD160');
input = [input0_0,input0_1];


data = input;

data1 = table;

data1.ACCELEROMETERXms = data(:,1);
data1.ACCELEROMETERYms = data(:,2);
data1.ACCELEROMETERZms = data(:,3);
data1.Timesincestartinms = data(:,4);

clear opts tb1 input0_0 input0_1 R


ax=data1.ACCELEROMETERXms;
ay=data1.ACCELEROMETERYms;
az=data1.ACCELEROMETERZms;
t=data1.Timesincestartinms;
stepcount = 0;
% Changes in Acceleration Sensors will indicate steps
disp('Running')
length = sqrt(sum(ax.^2 + ay.^2 + az.^2, 2));
disp(length);
% Plot magnitude
subplot(3,4,6);
stem(t, length);
xlabel('Time (s)');
ylabel('Acceleration (m/s^2)');
title('Distance Covered')
% Remove effects of gravity
magNoGrav = length - mean(length);
subplot(3,4,7);
stem(t, magNoGrav);
xlabel('Time (s)');
ylabel('Acceleration (m/s^2)');
title('No Gravity')
% Absolute magnitude
amag = abs(magNoGrav);
subplot(3,4,8);
stem(t, amag);
title('Absolute Magnitude')
xlabel('Time (s)');
ylabel('Distance Covered, No Gravity (m/s^2)');
% step counting
if(length>3)
    stepcount = stepcount+4;
    disp('stepcount')
end
```

```matlab
data_one = xlsread("C:\Users\99003197\Downloads\Sensor_record_20201214_133122_AndroSensor.xlsx","AH1:AI3209");
[lux] = data_one(:,1);
[time] = data_one(:,2);
i = 1;
for light = 2:3159
    if ( lux(i) > 80000  && stepdata.lux(i) < 85000 )
        disp(lux(i));
        disp("Bright noon condition");
        disp("Not optimum to do any outdoor activity");
        i = i+1;
    elseif( lux(i) > 18000 && lux(i) < 22000)
        disp(lux(i));
        disp("Partly cloudy sunny day");
        i = i+1;
    elseif(lux(i) > 9000 && lux(i) < 12000)
        disp(lux(i));
        disp("Golden Hour");
        i = i+1;
    elseif (lux(i) > 200 && lux(i) < 300)
        disp(lux(i));
        disp("optimal for bedroom dormitory or Cafeteria Eating");
        i = i+1;
    elseif( lux(i) >  300 && lux(i) < 500)
        disp(lux(i));
        disp("optimal for Classroom general or Conference Room");
        i = i+1;
    elseif( lux(i)> 50 && lux(i)< 100)
        disp(lux(i));
        disp("optimal for Corridor");
        i = i+1;
    elseif( lux(i) > 300 && lux(i) < 500)
        disp(lux(i));
        disp("optimal for Exhibit Space");
        i = i+1;
    elseif(lux(i) > 300 && lux(i) < 500)
        disp(lux(i));
        disp("optimal for Gymnasium-sports/games");
        i = i+1;
    elseif(lux(i) > 300 && lux(i) < 750)
        disp(lux(i));
        disp("optimal for kitchen ");
        i = i+1;
    elseif( lux(i)>500 && lux(i)<750)
        disp(lux(i));
        disp("optimal for laboratory");
        i = i+1;

    elseif( lux(i)> 200 && lux(i)<500)
        disp(lux(i));
        disp("optimal condition for library");
        i = i+1;
    elseif( lux(i)> 100 && lux(i) < 300)
        disp(lux(i));
        disp("optimal for loading dock");
        i = i+1;
    elseif( lux(i)> 300 && lux(i)< 750)
        disp(lux(i));
        disp("optimal for Workshop");
        i = i+1;
    elseif( lux(i) > 50 && lux(i) < 200)
        disp(lux(i));
        disp("optimal for storage room");
        i = i+1;
    else
        disp("No data");
        i = i+1;
    end
end

figure
plot(time,lux);
xlabel("Time in seconds");
ylabel("Light intensity in lux");
title("Light intensity vs Time");
```

```
mag =

       NaN
   10.6757
   10.7047
   11.3304
    8.9784
   10.1756
    9.4357
    8.7872
    9.8939
    9.2439
   10.7416
   11.4001
   10.4720
```

```
      9.9876
      9.6900
      9.0400
      9.5215
     10.3342
      9.6740
     10.8105
     11.6133
      9.3044
      9.1981
      8.8560
      9.1398
      9.7850
     10.4041
     10.4680
     10.7967
     10.7503
      9.6088
      9.3980
     10.9610
      9.1922
      9.4888
      8.7859
      9.1816
      9.1816
      7.2055
      9.8675
     12.1998
     13.7598
     14.0787
     12.8681
      9.9491
      9.3630
      9.3137
     11.3372
      8.2706
      6.1624
      6.6675
     12.7222
      9.6520
     11.7493
      5.1591
      7.8611
      8.1901
      8.7953
     12.2892
     10.3713
     10.9778
     15.0099
      9.9427
      9.7399
      9.9934
      9.9934
      9.6718
     11.5339
     10.7169
     11.9166
     10.2595
      8.3017
      8.5810
      9.8879
      8.6700
     13.8029
     12.0598
     10.6843
      9.1522
      9.6394
     10.0186
     10.4323
     13.0320
     10.5206
     11.4807
     11.4796
      6.6252
      9.0793
     13.3140
     14.0515
      8.4775
     12.0368
      9.5351
      8.2108
     10.0268
     12.1335
     14.6893
     12.9925
      6.9749
      4.1654
     18.5651
     12.3314
      8.1159
     12.9628
      8.5056
      7.9332
     11.5378
```

```
12.3416
11.7039
16.0806
 8.1831
 8.1831
19.2422
12.5036
10.5808
11.9631
 8.6069
 7.7769
11.9824
12.9942
14.2084
15.0994
 5.4408
 3.1167
24.8310
 7.1358
 9.6238
12.2601
 7.2113
 7.8193
12.9942
14.1355
15.7706
13.6423
 2.9068
 3.4802
12.0700
14.1239
16.7880
 8.4003
 7.2477
10.6018
13.7739
12.8488
12.2827
10.0174
 5.2930
 6.8656
15.1073
13.5831
13.4091
12.2516
 8.1494
 9.7139
10.0751
 9.7152
10.0900
 9.7951
 9.7613
11.1945
 9.3689
 8.5975
10.0341
10.3640
 9.7708
 9.8797
 8.9605
10.3296
 9.6626
 9.9866
 9.7758
10.0295
 9.6393
 9.8750
 9.7964
 9.7410
 9.7352
 9.9504
10.0487
 9.7143
10.0061
 9.1384
10.2766
10.3701
 9.4665
 9.9258
 9.6235
10.4974
 9.4479
10.0553
 9.5769
10.3053
 9.9533
 9.4055
 9.8393
 9.8145
 9.3989
11.2528
 9.8567
 8.9608
 9.7668
```

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10.8488
 9.9503
 9.9632
10.0660
10.3263
 9.9522
 9.7354
 9.8090
10.1527
10.0911
 9.8374
 9.9508
 9.6928
 9.7286
 9.8787
 9.8669
 9.8619
 9.6874
 9.9811
 9.8282
 9.9013
 9.9113
 9.9046
 9.7645
 9.9060
 9.7261
 9.9427
 9.8119
 9.8549
 9.7746
 9.8638
 9.8567
 9.8913
 9.8406
 9.8378
 9.8452
 9.8610
 9.8462
 9.8343
 9.8305
 9.8520
 9.8801
 9.8069
 9.8008
 9.8555
 9.8439
 9.8261
 9.8088
 9.8341
 9.8365
 9.8476
 9.8534
 9.8687
 9.8403
 9.8561
 9.8625
 9.8183
 9.8361
 9.8446
 9.8430
 9.8605
 9.8349
 9.8650
 9.8471
 9.8649
 9.8402
 9.8240
 9.8132
 9.8796
 9.8584
 9.8701
 9.8161
 9.8420
 9.8515
 9.8187
 9.8458
 9.8429
 9.8362
 9.8602
 9.8339
 9.8624
 9.8131
 9.8114
 9.8845
 9.8811
 9.8636
 9.8590
 9.8132
 9.8577
 9.8868
 9.8404
 9.7637
 9.7662
 9.9368
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 9.7954
 9.9098
 9.8597
 9.8699
 9.8464
 9.8363
 9.8936
 9.8430
 9.8142
 9.8357
 9.8152
 9.8613
 9.8013
 9.8954
 9.8981
 9.8297
 9.7704
 9.8002
 9.8306
 9.8134
 9.8773
 9.8426
 9.8054
 9.8899
 9.8602
 9.8266
 9.8510
 9.8023
 9.8459
 9.8399
 9.8699
 9.8560
 9.8827
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 9.8385
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 9.8807
 9.8376
 9.8484
 9.8374
 9.8223
 9.8707
 9.8475
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 9.8352
 9.8665
 9.8495
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10.1129
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9.8418
9.8930
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9.8791
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9.8260
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9.8675
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9.8537
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9.8114
9.8663
9.8119
9.8256
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9.8540
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9.8533
9.8294
9.8444
9.8473
9.8252
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9.8530
9.8632
9.8477
9.8359
9.7708
9.8391
9.8346
9.8905
9.8211
9.8610
9.8423
9.8688
9.8055
9.8293
9.8604
9.8401
9.8313
9.8244
9.8300
9.8653
9.8370
9.8669
9.8530
9.8393
9.9389
9.8033

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9.9038
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9.8379
9.8159
9.8994
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9.8586
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9.7977
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9.9510
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10.1843
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9.6738
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9.9728
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10.2278
8.8446
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9.9015
10.2705
9.3956
9.6551
9.6551
10.1033
9.9787
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9.8319
10.6981
10.1115
9.8657
11.6537
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10.1262
10.1389
9.5529
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9.9752
9.6314
10.1738
9.5992
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9.9672
9.6431
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10.0632
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10.0428
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9.7910
9.9785
9.7844
9.8244
9.9394
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9.7877
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9.6386
9.9048
9.9437
10.0236
9.4919
9.9857
10.2716
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9.8863
9.8746
9.8626
9.8296
10.1229
9.7803
9.7325
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adjust the screen brightness to 5%
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up beat song
30

no music or no one is talking
28.7150

no music or no one is talking
29.7940

no music or no one is talking
29.2380

no music or no one is talking
29.5250

no music or no one is talking
32.4360

no music or no one is talking
70.3740

up beat song
68.1580

up beat song
70.7250

up beat song
60.8860

low beat song
73.0760

up beat song
56.0800

low beat song
65.8600

up beat song
64.6950

low beat song
68.6140

up beat song
71.7930

up beat song
61.1560

low beat song
61.8530

low beat song
74.2510

up beat song
73.4120

up beat song
74.2280

up beat song
72.2790

up beat song
73.5640

up beat song
68.9510

up beat song
72.2780

up beat song
72.2820

up beat song
68.4560

up beat song
72.3270

up beat song
70.7950

up beat song
75.0530

up beat song
74.7740

up beat song
75.1960

up beat song
73.9280

up beat song
73.6630

up beat song
75.1110

up beat song
73.8460

up beat song
71.0620

up beat song
75.6320

up beat song
69.0430

up beat song

71.7420

up beat song
72.6370

up beat song
73.6840

up beat song
72.9340

up beat song
73.2190

up beat song
72.9400

up beat song
73.9850

up beat song
75.8290

up beat song
73.8840

up beat song
75.0820

up beat song
72.0320

up beat song
74.2520

up beat song
71.6080

up beat song
72.0360

up beat song
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up beat song
66.8120

up beat song
73.9190

up beat song
74.5150

up beat song
75.6160

up beat song
74.2570

up beat song
76.8110

up beat song
76.8010

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76.4560

up beat song
76.0830

up beat song
76.6350

up beat song
75.2030

up beat song
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15.0994
5.4408
3.1167
24.8310
7.1358
9.6238
12.2601
7.2113
7.8193
12.9942
14.1355
15.7706
13.6423
2.9068
3.4802

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12.0700
14.1239
16.7880
 8.4003
 7.2477
10.6018
13.7739
12.8488
12.2827
10.0174
 5.2930
 6.8656
15.1073
13.5831
13.4091
12.2516
 8.1494
 9.7139
10.0751
 9.7152
10.0900
 9.7951
 9.7613
11.1945

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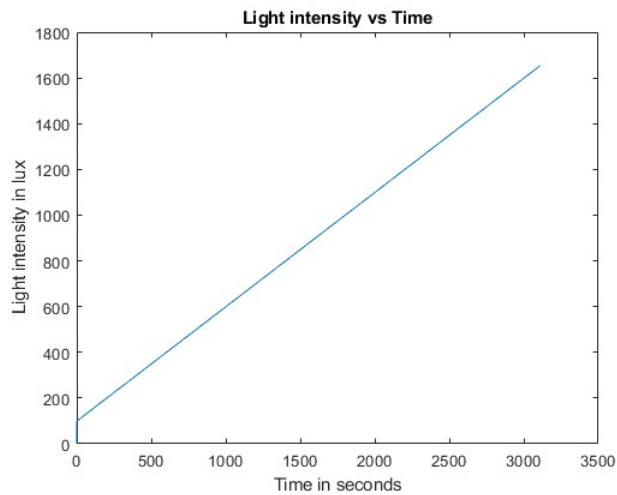55

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Screen Brightness Adjuster

Music range
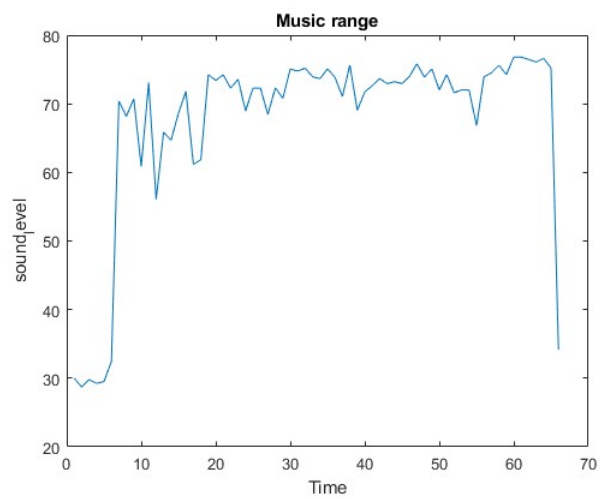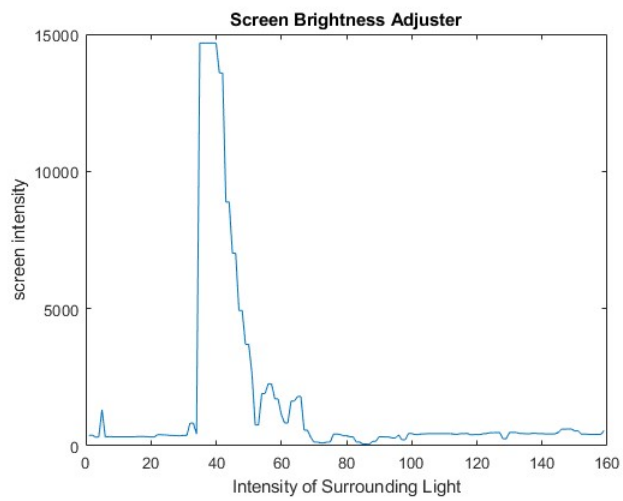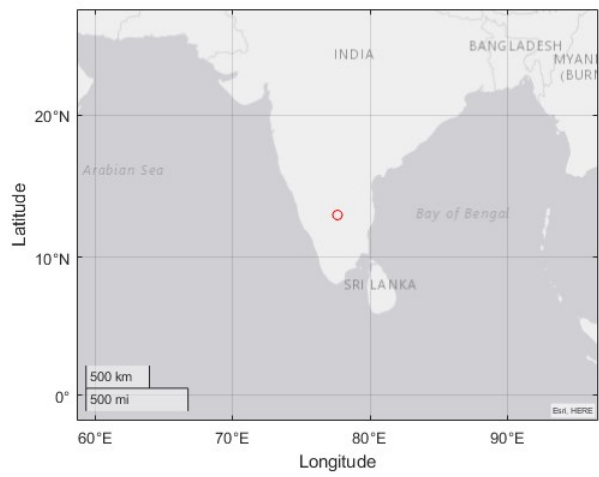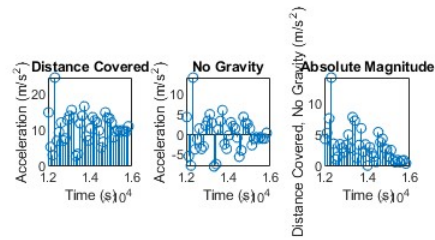
step count 99003197

```
figure
[input0_0] = xlsread('C:\Users\99003197\Downloads\Sensor_record_20201214_133122_AndroSensor.xlsx','A2:C28');
[input0_1] = xlsread('C:\Users\99003197\Downloads\Sensor_record_20201214_133122_AndroSensor.xlsx','AD2:AD28');
input = [input0_0,input0_1];


data = input;


data1 = table;


data1.ACCELEROMETERXms1= data(:,1);
data1.ACCELEROMETERYms = data(:,2);
data1.ACCELEROMETERZms = data(:,3);
data1.Timesincestartinms = data(:,4);


x=data1.ACCELEROMETERXms1;
y=data1.ACCELEROMETERYms;
z=data1.ACCELEROMETERZms;
t=data1.Timesincestartinms;
stepcount = 0;

disp('Walking Steps')
length = sqrt(sum(x.^2 + y.^2 + z.^2, 2));
disp(length);

subplot(3,4,6);
stem(t, length);
xlabel('Time in (s)');
ylabel('Acceleration in (m/s^2)');
title('Magnitude')
magNoGrav = length - mean(length);
subplot(3,4,7);
stem(t, magNoGrav);
xlabel('Time in  (s)');
ylabel('Acceleration (m/s^2)');
title('No Gravity')
```

```
amag = abs(magNoGrav);
subplot(3,4,8);
stem(t, amag);
title('Absolute Magnitude')
xlabel('Time in  (s)');
ylabel('Acceleration Magnitude, No Gravity (m/s^2)');

if(length>=2)
    stepcount = stepcount+1;
    disp('stepcount')
end
```

```
Walking Steps
   10.6757
   10.7047
   11.3304
    8.9784
   10.1756
    9.4357
    8.7872
    9.8939
    9.2439
   10.7416
   11.4001
   10.4720
    9.9876
    9.6900
    9.0400
    9.5215
   10.3342
    9.6740
   10.8105
   11.6133
    9.3044
    9.1981
    8.8560
    9.1398
    9.7850
   10.4041
   10.4680

stepcount
```

Light intensity vs Time

Magnitude   **No Gravity**   **Absolute Magnitude**

---
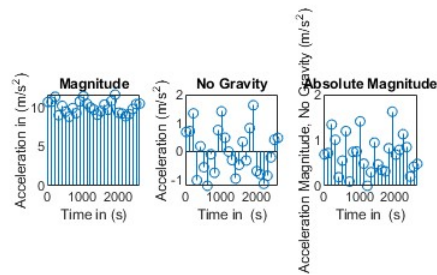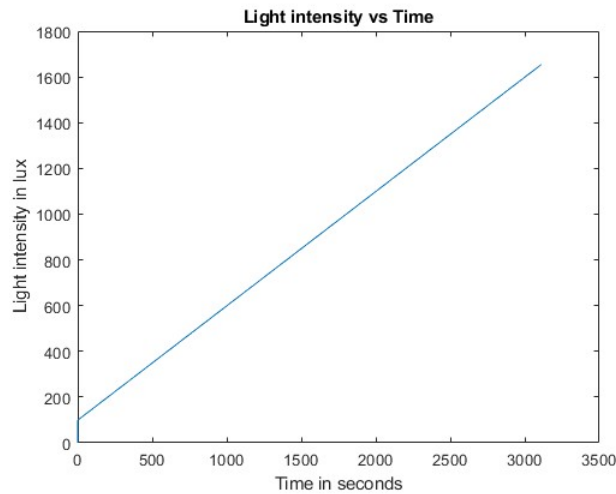
linear_acceleration 99003175

```
figure
imp=xlsread('C:\Users\99003197\Downloads\Sensor_record_20201214_133122_AndroSensor.xlsx');
[linear_X]=imp(:,7);
[linear_Y]=imp(:,8);
[linear_Z]=imp(:,9);
[time]=imp(:,30);
linear_accel=[linear_X,linear_Y,linear_Z,time];
%%Finding the velocity
vel_X=linear_X.*time;
vel_Y=linear_Y.*time;
vel_Z=linear_Z.*time;
%%Middle value
Middle_X=((max(vel_X)+min(vel_X))/2);
Middle_Y=((max(vel_Y)+min(vel_Y))/2);
Middle_Z=((max(vel_Z)+min(vel_Z))/2);
%%Plot the values for velocity
subplot(3,1,1);
plot(time,vel_X);
xlabel('Time(ms)')
ylabel('velocity X values')
title('Velocity in X plane')
subplot(3,1,2);
plot(time,vel_Y);
xlabel('Time(ms)')
ylabel('velocity Y values')
title('Velocity in Y plane')
subplot(3,1,3);
plot(time,vel_Z);
xlabel('Time(ms)')
ylabel('velocity Z values')
title('Velocity in Z plane')
for x=2:length(vel_X)-1
    if(vel_X(x)>Middle_X)
    else
    end
end
for y=2:length(vel_Y)-1
    if(vel_Y(y)>Middle_Y)
    else
    end
```

```matlab
end
for z=2:length(vel_Z)-1
    if(vel_Z(z)>Middle_Z)
    else
    end
end
disp(max(vel_X))
disp(max(vel_Y))
disp(max(vel_Z))
disp(Middle_X)
disp(Middle_Y)
disp(Middle_Z)
disp(min(vel_X))
disp(min(vel_Y))
disp(min(vel_Z))
```

Array indices must be positive integers or logical values.

Error in naveen (line 409)
ylabel('Acceleration (m/s^2)');

Clear temporary variables

```matlab
clear opts tbl
```