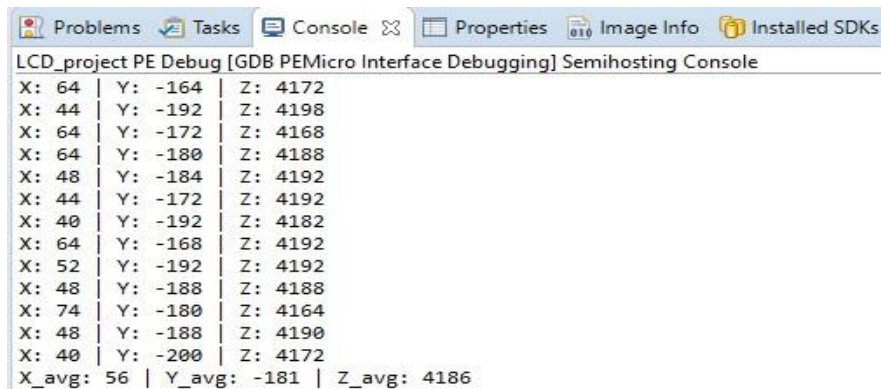


TESTING of Smart Health Monitoring System

TEST-1 Calibration of Acceleration

To calibrate the board, FRDM-KL25Z is kept on flat surface. The values of the calibration is printed on the Console.

Firstly the values of 50 values x, y, z are taken and average values are printed.



The screenshot shows a console window titled "LCD_project PE Debug [GDB PEMicro Interface Debugging] Semihosting Console". It displays a list of 15 rows of acceleration data (X, Y, Z) and their average values. The data is as follows:

X	Y	Z
64	-164	4172
44	-192	4198
64	-172	4168
64	-180	4188
48	-184	4192
44	-172	4192
40	-192	4182
64	-168	4192
52	-192	4192
48	-188	4188
74	-180	4164
48	-188	4190
40	-200	4172
X_avg: 56 Y_avg: -181 Z_avg: 4186		

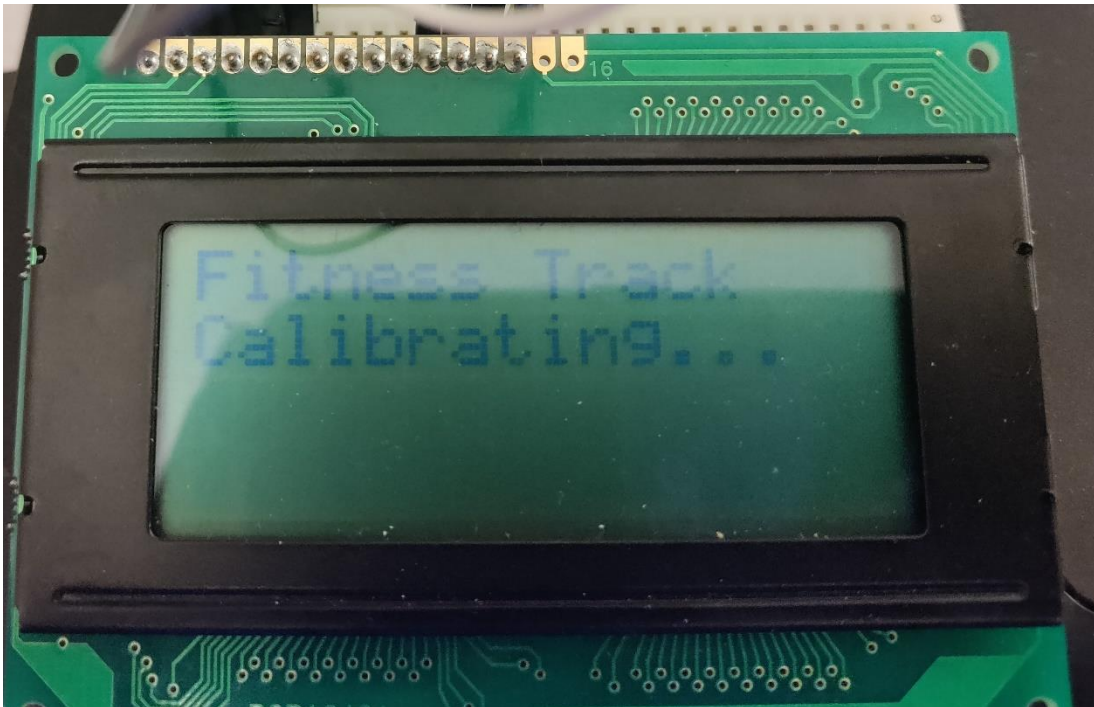
TEST-1 LCD Test

Following are messages are printed to test the display of the LCD.

Screen1:



Screen:2



Screen:3



Distance Test:

As soon as the device is attached to the person whose fitness is to be tracked, whenever the acceleration value is greater than some threshold the distance is increased by a factor of 0.41(Data assumed for Standard Men and Women)

The calorie value increments by a factor of 0.5 for every 1meter distance.

