ECE 313 (Section G)

Project 1 Task 0

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Code

```
import scipy.io as sio
   import matplotlib.pyplot as plt
   # load MAT file
4
   matFile = sio.loadmat('patient_data.mat')
   # create subplots and format
   figure, axis = plt.subplots(3, figsize=(18, 9))
   figure.tight_layout(pad=3.0)
10
   # plot data on each subplot
11
   axis[0].plot(matFile['data'][0])
12
   axis[0].set_title('Heart Rate')
13
   axis[0].set(ylabel='BPM')
   axis[1].plot(matFile['data'][1])
15
   axis[1].set_title('Pulse Rate')
   axis[1].set(ylabel='BPM')
17
   axis[2].plot(matFile['data'][2])
   axis[2].set_title('Respiration Rate')
19
   axis[2].set(ylabel='Breaths/Min')
21
   plt.show()
```

Output

