Project #1\aver.m

```matlab
1  % ID Number: 229,506
2  % ECE 31033 - Project #1
3  % aver.m
4
5  % The fourth file (aver.m) contains a function you create to compute the average of
6  % a waveform. Specifically, the function is of the form
7  %         function av = aver(x,T,dt)
8  % where x is the waveform to be averaged, T is its period, and dt is the period of time
9  % between samples. This function must use the last period of the input waveform to
10 % calculate the average.
11
12 function av = aver(x, T, dt)
13     location = length(x);
14     av = 0;
15     time = 0;
16
17     while (time <= T)
18         av = av + dt * (x(location));
19         time = time + dt;
20         location = location - 1;
21     end
22
23     av = av / T;
24 end
25
```