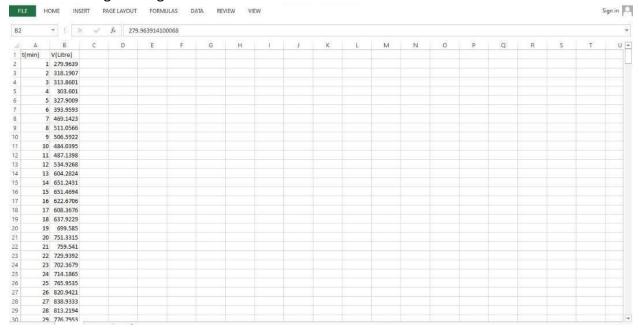
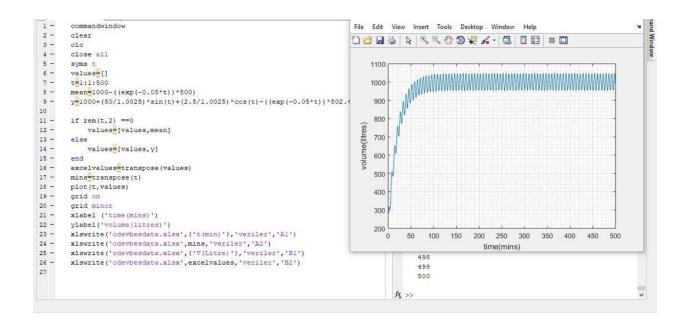
Ogundare Emmanuel 18/eng06/055

Mechanical engineering





 $(y-2010) = -0.025 dt; \int dy = \int -0.025 dt$ Sdy = -0.025 dt; ln (y-2040) =-0.025++C y-2040 = e -0.025+c ; y-2040 = e -0.024 c y-2040 = e yo; y-2040 = ye -0.025t y-ye-0.025+ + 20+0; Intially, when +=1, y=1506 150 = 40e-0.025+ +2040; 150-2040 = 40 X 1 $y = -1890e^{-0.025t} + 2040$ $y = 2040 - 1890e^{-0.025t}$