

YERONDE PUNYATH KUTUM.

17/EN008/004

BIOMEDICAL ENGINEERING.

ENG 382

ASSIGNMENT 1.

ANSWER.

Command Window.

clear.

clc.

format short

$$V = 0.5;$$

$$m = 3.5$$

$$g = 9.81$$

$$F = m * g$$

$$V = \text{sqrt} \left(\frac{((F + (0.02 * V)) * (\log(V))^3) + (10 * V) + 17150}{0.3} \right);$$

for i = 1:inf.

$$V_{\text{new}}(i+1) = V$$

$$V(i+1) = \text{sqrt} \left(\frac{((F + (0.02 * V(i))) * (\log(V(i)))^3) + (10 * V(i)) + 17150}{0.3} \right);$$

$$ea(i+1) = \text{abs}((V(i+1) - V(i)) * 100);$$

$$\text{if } ea(i+1) \leq 0.00000000001$$

break

end

end

$$\text{table} = \text{table}(\text{iter}', V', ea')$$