



NAME : MAJIDADI UMAR ALYU
MTRIC No: 171SC1011047 (Transfer)
DEPT: COMPUTER ENGR.
ENGR 281. MAT LAB

17/11/18

SO: Assignment

- 1) Command window
- 2) Clear
- 3) CLC
- 4) Close all
- 5) syms t
- 6) $V = 110 * \cos(120 * \pi * t)$
- 7) $C = 100 * 10^{-6}$
- 8) $Q = C * V$
- 9) $t = 0:0.01:0.95$
- 10) $hice = \text{subs}(Q, t)$
- 11) $hfc = \text{subs}(V, t)$
- 12) $I = \text{diff}(Q)$
- 13) $hgoodluck = \text{subs}(I, t)$
- 14) $\text{power} = I * V$
- 15) $hJed = \text{subs}(\text{power}, t)$
- 16) $pt = \text{double}(\text{sum}(hJed))$
- 17) figure(1)
- 18) $\text{Plot} < t, hfc, t, hgoodluck, 'red', t, pt, 'black'$
- 19) axis tight
- 20) grid on
- 21) grid minor
- 22) x label ('Variable')
- 23) y label ('Variable')
- 24) legend('Voltage (volts)', 'Current (amperes)', 'Power watts')
- 25) Output Command window

$$V = 110 * \cos(120 * \pi * t)$$

Note: The semi colon symbol is used to hide the all power large output that is to display in the windows.