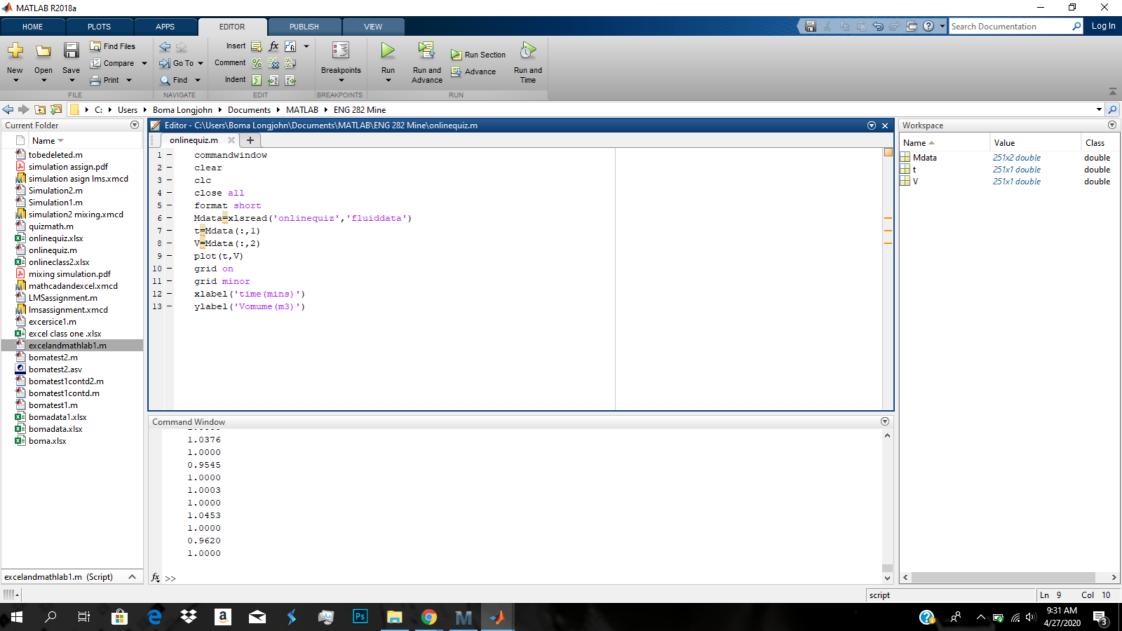
## NAME: LONGJOHN BOMAFINTAMUNOPIRI ADANGO

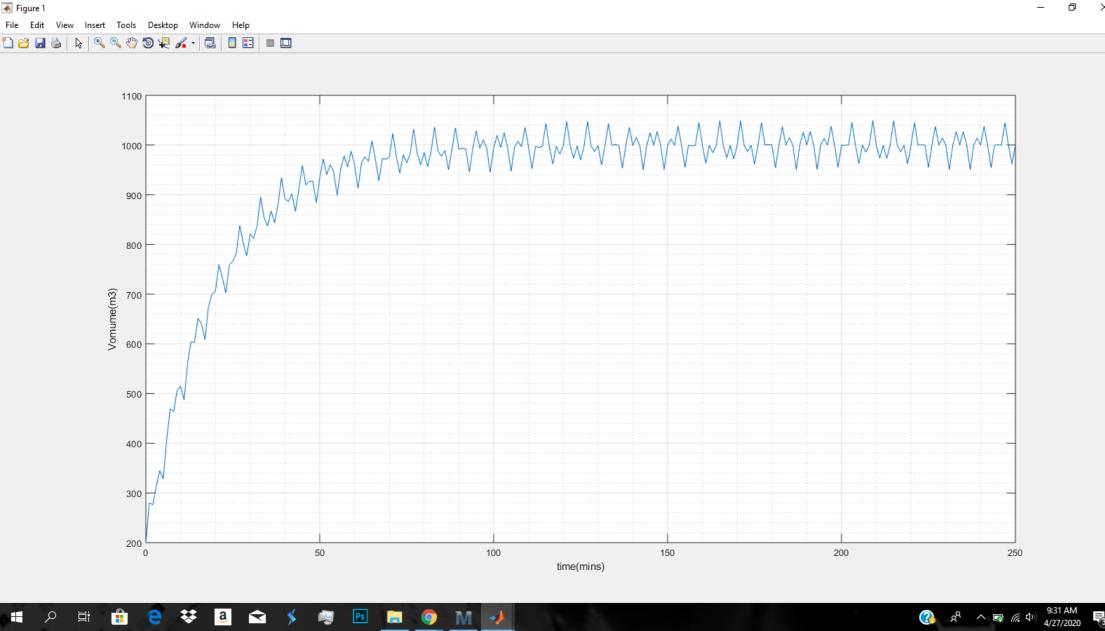
MATRIC NO: 19/ ENG01/020

**DEPARTMENT: CHEMICAL** 

**COURSE CODE: ENG 282** 

Quiz





Alonswer To Online Quis.	10=76CS+25
dt & (7-7a)  dt = K(7-7a)	$T_0 = 10-25$ = -15
$705 = 10^{\circ}c$ $72 = 25^{\circ}c$ $7(5 mins S = 20^{\circ}c)$	$T = -15e^{Kt} + 25$ $20 = -15e^{K(5)} + 25$
dT = K (T-25°C)	$20-25 = -15e^{5K}$ $-5 = -15e^{5K}$
Integrating both sides  (AT = KAt.  7-25	$-6 = e^{5K}$ $-15$ $e^{5K} = 1/3$
$ \Omega(T-25) = Kt + C $ $ e^{R(T-25)} = Kt + C $ $ = e^{Kt + C} $	5K = A(13) = 5 K = A(13) = 5
$(7-25) = e^{kt} \cdot e^{c}$ $(7-25) = e^{kt} \cdot e^{c}$	$K = -0.2197$ $T = -15e^{-0.2197t} + 25$
$T = T_0 e^{K^{\xi}} + 25$	24.9°C = -15e 125.
$TCOS = 10$ $TO = TO e^{KCOS} + 25$	$-6.1 = -15e^{-0.2.1976}$ $6.67 \times 10^{-8} = e^{-0.2.176}$ $-5.010e = -0.2.176$ $t = 23.09 sec$
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