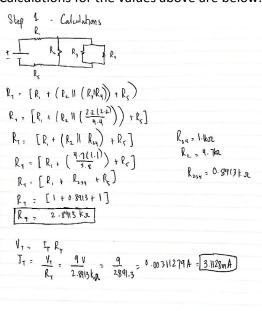
Course Number and Name:		
CECS 211: Principles of Computer Engineering I		
Semester	and Year:	
Fall 2016		
Name of Students:	Name of Lab Instructor:	
Umar Khan, Alexander Wall	Joshua Hayter	
Date of Report Submitted:	Grade:	
09/15/2016		

Section 1: Calculations by Hand

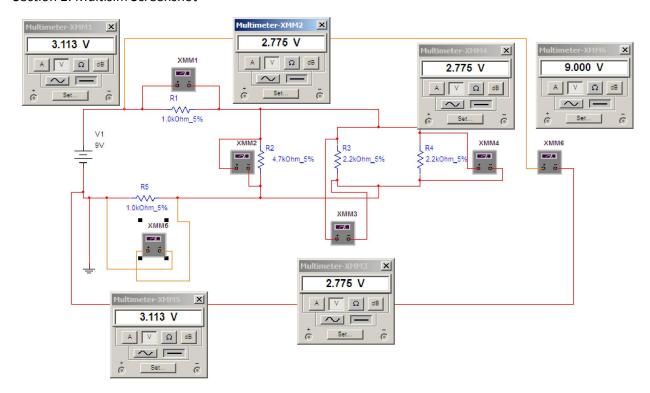
IT	3.1128mA
l1	3.1128Ma
12	589 µA
13	1.26 mA
14	1.26 mA
VR1	3.1128 V
VR2	2.77 V
VR3	2.77 V
VR4	2.77 V
VR5	3.1128 V

Calculations for the values above are below:

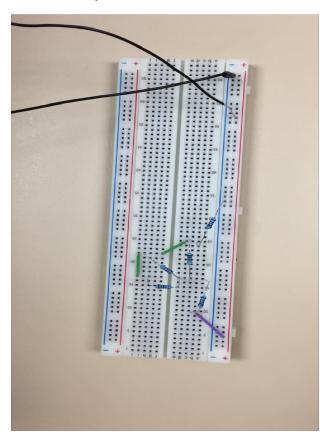


	· ·		
	R1 R7 R3 R4 R5 Tark]		
	13/01		
	V 5.1124 2.774 2.77V 2.77V 4V		
	I 3,1125-4 5894.A 1.26-11 1.26-11 3.1125-11 3.1125-11		
	R KA 4.TK 2.260 a.m. KA 2.891KA		
	Ir = RT = 2.091102 = 3.1128mA		
	Lr = RT = 2,891112 3.1128mA		
	0 0		
	Ry = Ry Ry = 22K + 22K = 1.1K 1.		
	K ₁ +R ₄ 2 2k+2,2k		
	R ₁ +R ₃₄ = R ₁ +R ₃₄ = 891,3.D.		
	$R_1 + R_{34}$		
	I1= I7= 3,1128mA		
0	Z= I== 3,1128mA		
	V1= I, xiR1 = 3.1128 mAx 1K12 = 3.1128 V		
	KIL = V+- V1- V5 = V224		
	94-3, 1128-3, 1128 = 2, 7744V		
	I2= R2 = 4.77V = 589aA		
	The second secon		
	$L_3 = \frac{V_1}{R_3} = \frac{4.71V}{2.2K} = 1.26 \text{ n/A}$		
	$T_4 = \frac{V_4}{R_4} = \frac{A.71V}{8.2 \text{ K}} = 1.1 \text{ cm A}$		
	,,,,,,,, .		
F15			
0			
100			

Section 2: Multisim Screenshot



Section 3: Snapshot of the Circuit



Section 4: Measurements from DMM

Measure with ohmmeter of DMM	Resistance
R1	0.92 kΩ
R2	$4.3~\mathrm{k}\Omega$
R3	$2.1~\text{k}\Omega$
R4	2.2 kΩ
R5	0.93 kΩ
RT	2.78 kΩ
Measure with current meter of DMM	Current
IT	3.23 mA
l1	3.27 mA
12	623 µA
13	1.27 mA
14	1.22 mA
Measure with voltmeter of DMM	Voltage
VR1	3.01 V
VR2	2.68 V
VR3	2.68 V
VR4	2.68 V
VR5	3.01 V