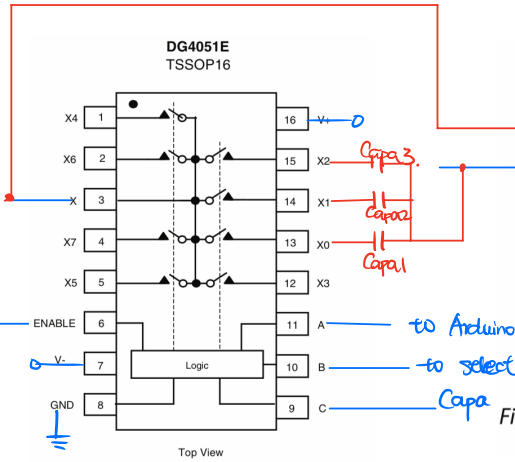


TRUTH TABLE						
ENABLE INPUT	SELECT INPUTS			ON SWITCHES		
	C	B	A	DG4051E	DG4052E	DG4053E
H	X	X	X	All switches open	All switches open	All switches open
L	L	L	L	X to X0	X to X0, Y to Y0	X to X0, Y to Y0, Z to Z0
L	L	L	H	X to X1	X to X1, Y to Y1	X to X1, Y to Y0, Z to Z0
L	L	H	L	X to X2	X to X2, Y to Y2	X to X0, Y to Y1, Z to Z0
L	L	H	H	X to X3	X to X3, Y to Y3	X to X1, Y to Y1, Z to Z0
L	H	L	L	X to X4	X to X0, Y to Y0	X to X0, Y to Y0, Z to Z1
L	H	L	H	X to X5	X to X1, Y to Y1	X to X1, Y to Y0, Z to Z1
L	H	H	L	X to X6	X to X2, Y to Y2	X to X0, Y to Y1, Z to Z1
L	H	H	H	X to X7	X to X3, Y to Y3	X to X1, Y to Y1, Z to Z1



CS  
H: disable  
L: Enable

$V+ : V_{cc} + 5V$

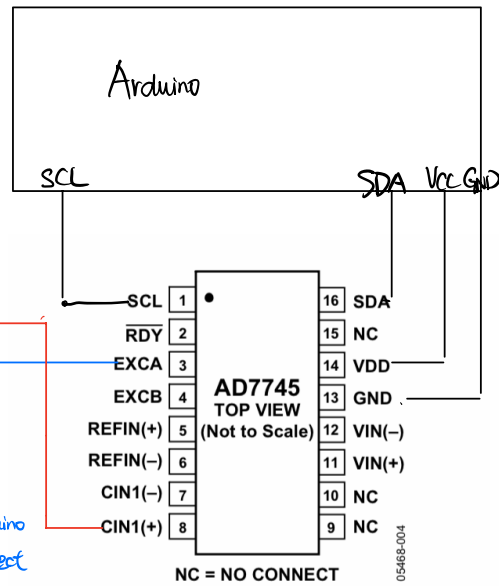
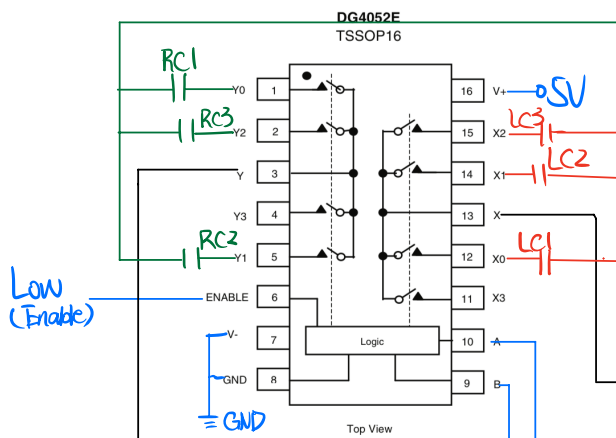


Figure 4. AD7745 Pin Configuration (16-Lead TSSOP)

Differential Capa

LC1  
RC1  
LC2  
RC2  
LC3  
RC3

TRUTH TABLE						
ENABLE INPUT	SELECT INPUTS			ON SWITCHES		
	C	B	A	DG4051E	DG4052E	DG4053E
H	X	X	X	All switches open	All switches open	All switches open
L	L	L	L	X to X0	X to X0, Y to Y0	X to X0, Y to Y0, Z to Z0
L	L	L	H	X to X1	X to X1, Y to Y1	X to X1, Y to Y0, Z to Z0
L	L	H	L	X to X2	X to X2, Y to Y2	X to X0, Y to Y1, Z to Z0
L	L	H	H	X to X3	X to X3, Y to Y3	X to X1, Y to Y1, Z to Z0
L	H	L	L	X to X4	X to X0, Y to Y0	X to X0, Y to Y0, Z to Z1
L	H	L	H	X to X5	X to X1, Y to Y1	X to X1, Y to Y0, Z to Z1
L	H	H	L	X to X6	X to X2, Y to Y2	X to X0, Y to Y1, Z to Z1
L	H	H	H	X to X7	X to X3, Y to Y3	X to X1, Y to Y1, Z to Z1



Low (Enable)

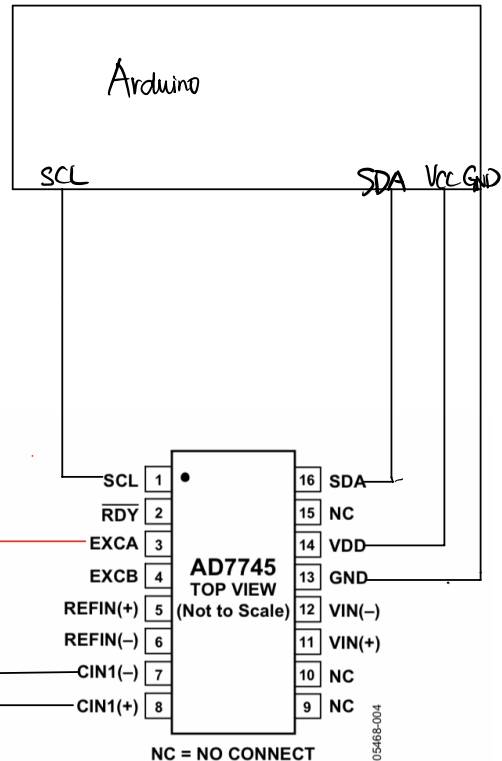


Figure 4. AD7745 Pin Configuration (16-Lead TSSOP)

Channel select pin from Arduino

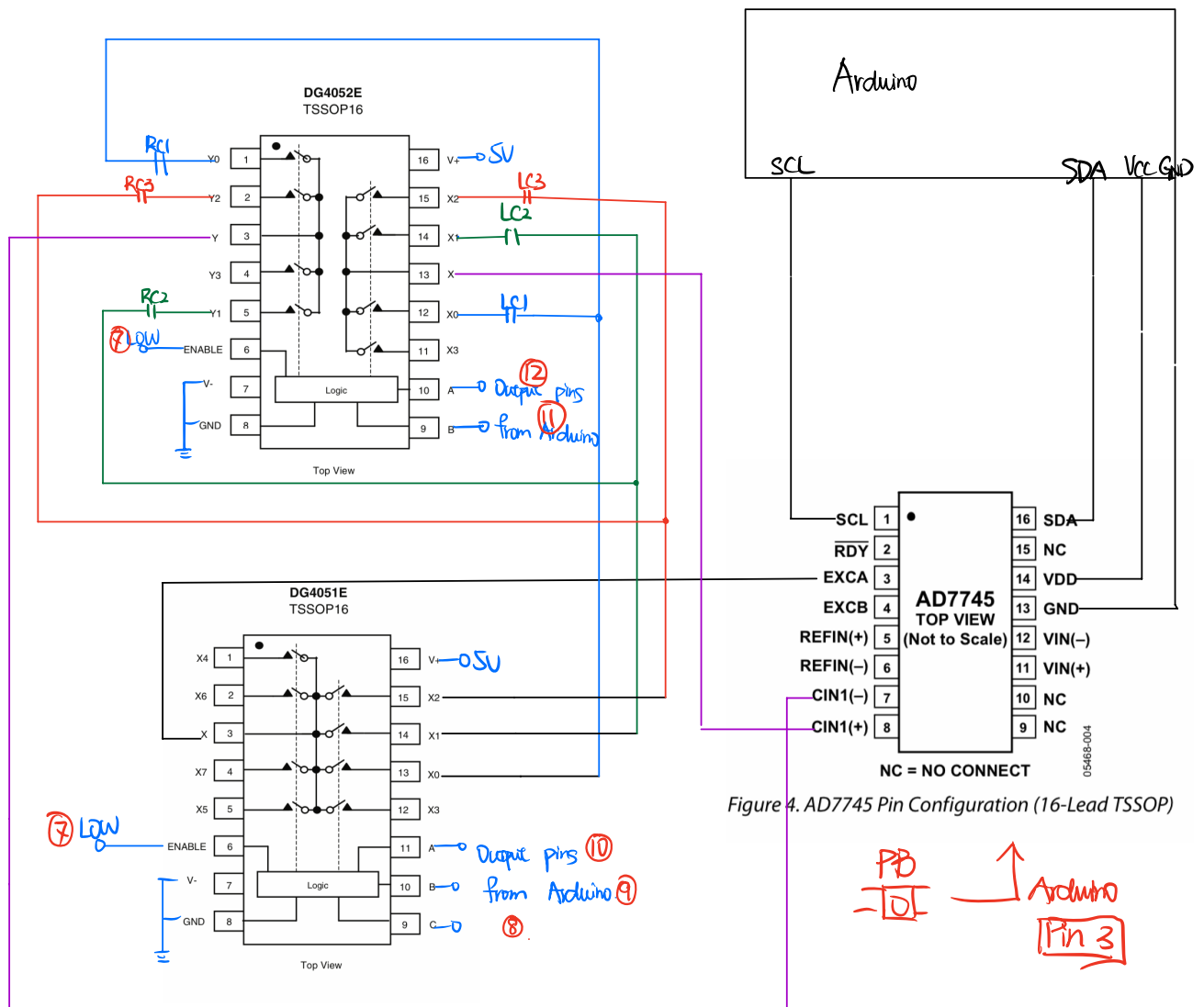
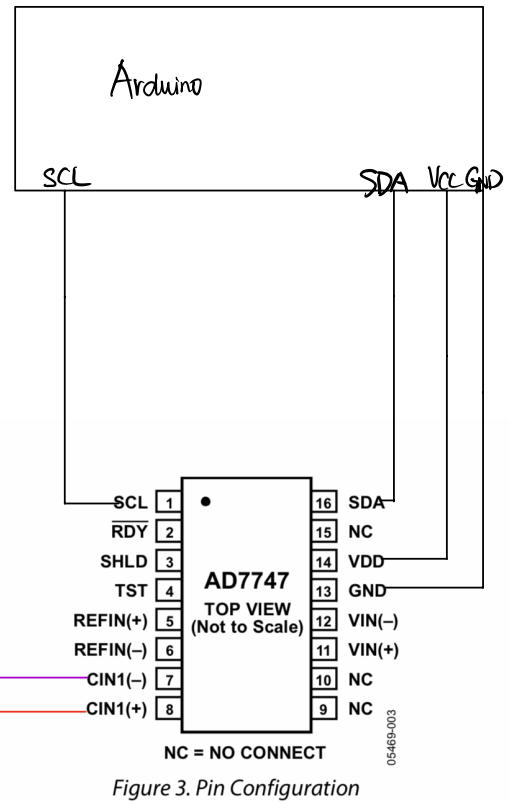
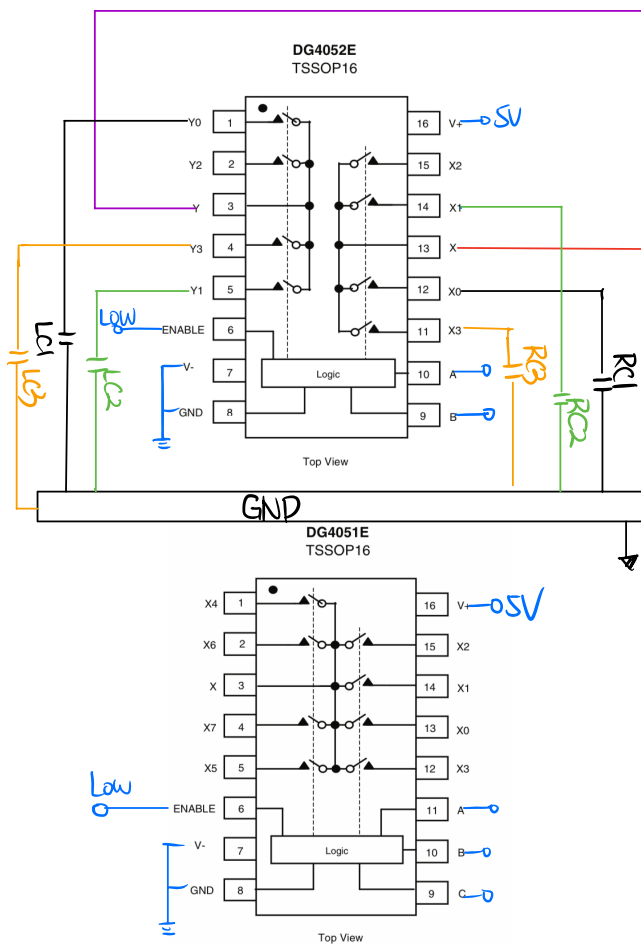


Figure 4. AD7745 Pin Configuration (16-Lead TSSOP)

# AD7747 Design



top mode: 4.57  $\leftarrow 5.02 \rightarrow 5.50$

middle mode: 2.22  $\leftarrow 3.16 \rightarrow 4.10$

top: 3.22  $\leftarrow 3.85 \rightarrow 4.31$

mid: 1.73  $\leftarrow 2.71 \rightarrow 3.88$

mid:

2.0  $\pm 1.4$

top

3.6  $\pm 1.6$

bot:

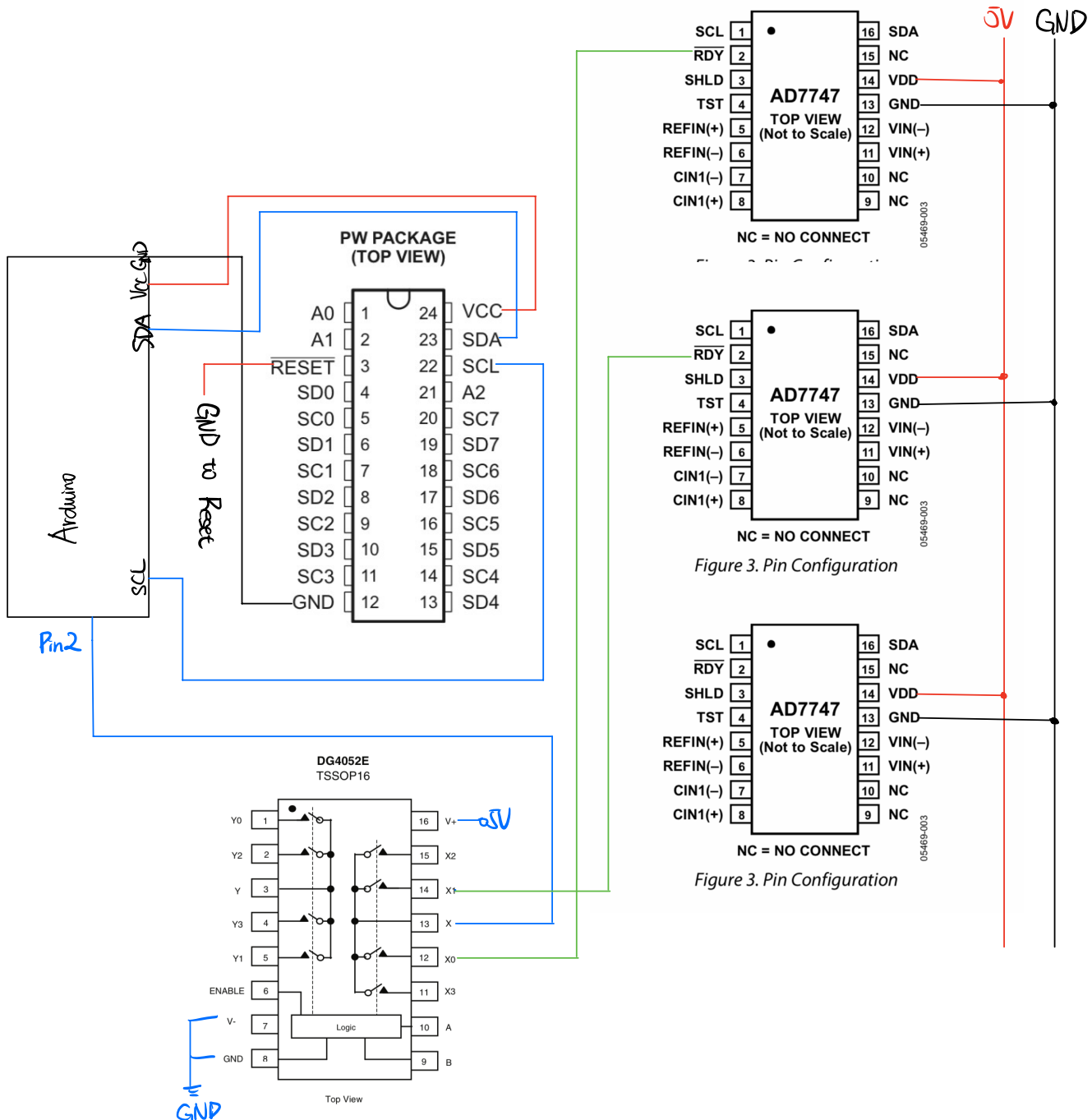
2.8

3.6

4.6

# I2C Multiplexer Design

①: A0, A1, A2 are for adjusting address  
Shouldn't be used in this case



I2C Multiplexer Design: A0, A1, A2 are for adjusting address  
 Current Design !!! Shouldn't be used in this case

