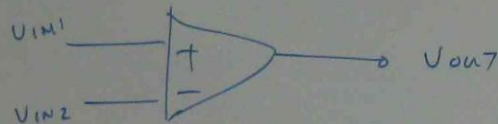


## PRACTICAL

### OPERATIONAL AMPLIFIER COMPARATOR



OP-AMP COMPARES TWO INPUTS  $V_{IN1}$  &  $V_{IN2}$  AND

THE DIFFERENCE IS AMPLIFIED AND SENT TO OUT PUT.

IF  $V_{IN1} = 0$  &  $V_{IN2}$  HAS REFERENCE VALUE,

THE OUT PUT WILL BE MAXIMUM.

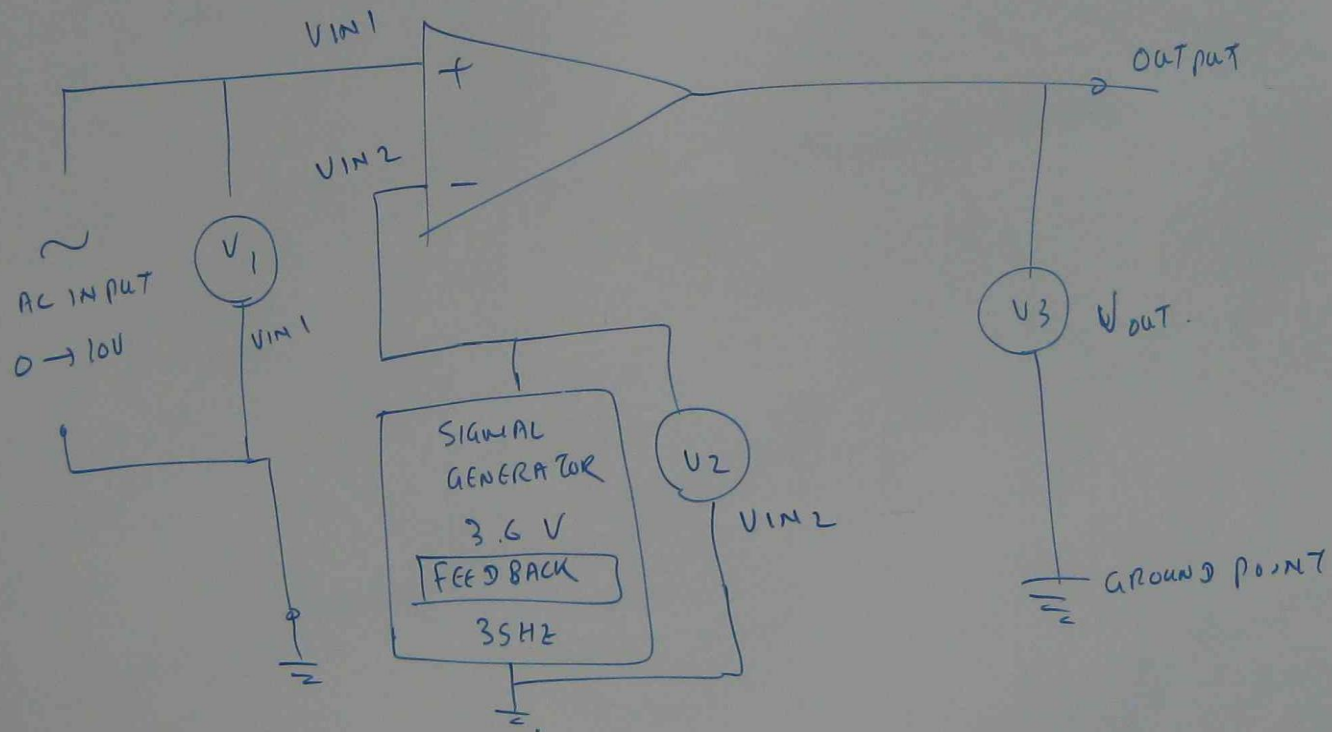
WHEN  $V_{IN1}$  IS APPLIED AND INCREASED, THE OUTPUT  
WILL DECREASE AS  $V_{IN1}$  APPROACHES TO  $V_{IN2}$ .

IN THIS PRACTICAL, YOU ARE REQUIRED TO DETERMINE


THE RELATION BETWEEN  $V_{IN1}$ ,  $V_{IN2}$  AND OUT PUT

# PROCEDURE

CONNECT THE GIVEN CIRCUIT



- GIVE 3.6V, 35 Hz TO  $V_{IN2}$  AS REFERENCE
- INCREASE  $V_{IN1}$  AND NOTE THE  $V_{OUT}$

$V_{IN1} (V_1)$	$V_{IN2} (V_2)$	$V_2 - V_1$	$V_{OUT}$
0	3.6V		
	CONSTANT		
MAXIMUM			

INT

