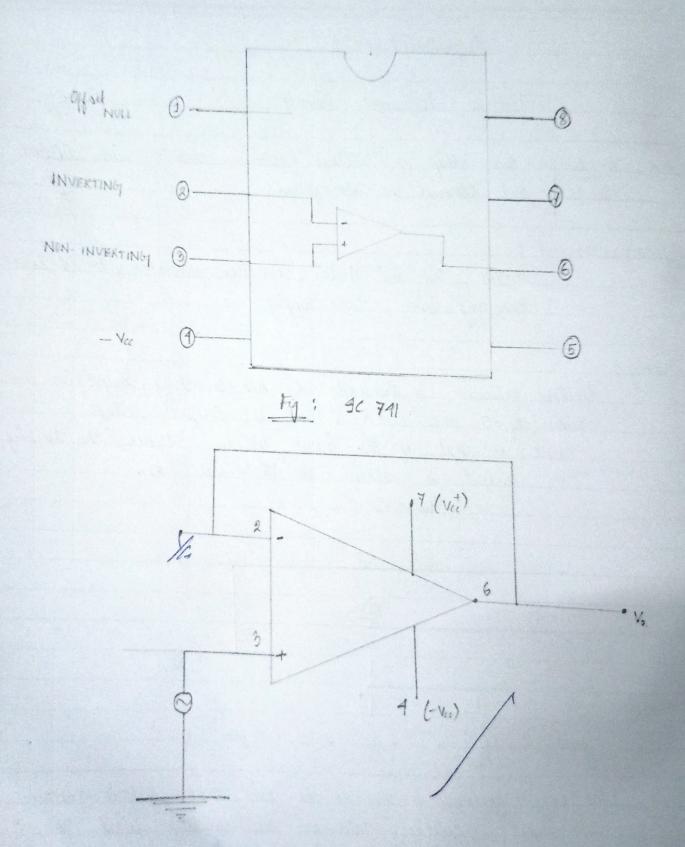
| in James In Africa | Europe ment up : 1  |  |  |  |
|--------------------|---|--|--|--|
|                    | Eupourment no : 1.  Vellage tellower Counit.  |  |  |  |
|                    |   |  |  |  |
|                    | Sin: To design and strop a Wellage zellouver circuit with OP Arts.  |  |  |  |
|                    | 2 and a constant  |  |  |  |
|                    | Spearatus Required:  90 741, CRO and Probes, Function generator, brand board  Connecting Wive, Power Supply.  |  |  |  |
|                    |   |  |  |  |
|                    | Theory:  Vellage gollower is basically a non-inverting amplifier  with Ry = 0 and Ri = \pi . Here the Output reltage is  same as that of the input voltage. Hence, the amplif  -or autput is related to the input as. |  |  |  |
|                    | - ex autput is related to the input as,   |  |  |  |
|                    | Veut = Vin  |  |  |  |
|                    |   |  |  |  |
|                    |   |  |  |  |
|                    |   |  |  |  |
|                    | Vas   |  |  |  |
|                    | Vů.   |  |  |  |
|                    | yain = 1 + (Ph) = 1 + 0 = 1. (peac Rg=0).   |  |  |  |
|                    | The name follower is due to the fact that output gollows  |  |  |  |
|                    | the input. Vollage Jellowars are widely used to   |  |  |  |
|                    | premide luffering between high internal resistance & land   |  |  |  |
|                    | T 1 (Circles)   |  |  |  |



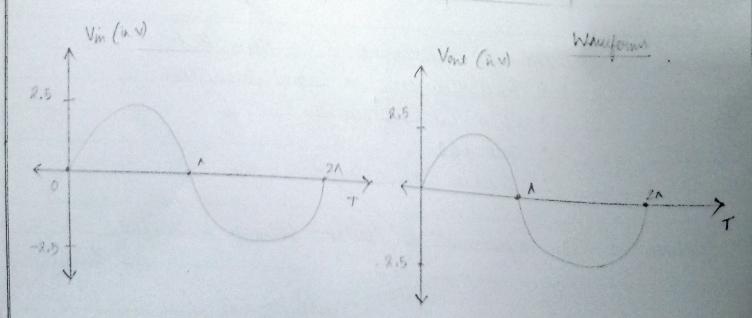
CIRCUIT DIAGIAN

|      |  | 4 |
|------|--|---|
| )ate |  |   |
|      |  |   |

| Rose to a  |                      |
|--|----------------------|
| Procedure:   |                      |
| @ Fritially set + Vec = 15 V and - Vec =                                     | -15V                 |
| for Wallage Fellower on a bread  | , connect the circu  |
| 10 Before twining any power on, doubt  | le click the wiving  |
| @ Compare practical vo with theoritica                                       | l output vollage Voz |
| 3 Connect the non-involving input tours to junction generators and output is |                      |
| © teed input from function generate output on CRO.                           | n and eleverine the  |
| @ Compare the input and output u   | laurferims.          |
| Observations:  |                      |
| From the enperiment it is cle  | an that              |
| · Input ulaweforem = Output  |                      |
| · Vin = Vent, practically  | · ·                  |
| · yain = 80  |                      |
| · Practical gain : Thuritheal  | Jain                 |
| Conclusion: the enperiment of Mellige gallo                                  | nor & Wright.        |
| Teacher's Sign   |                      |

## Obscurtien Table:

| L<br>No. | Trapuncy (king) | dignot (Vi) | Output (V.) | your or do |
|----------|-----------------|-------------|-------------|------------|
| 1        | 1               | 5           | 5           | 0          |
| 2        | 2               | 5           | 5           | 0          |
|          | 3               | 5.          | 5           | 0          |
|          | 1               | 5           | 5           | 0          |
| 5        | 5               | 5           | 5           | 0          |
| 1        | 6               | 5           | 5           | 0          |
| À        | ¥               | 5           | 5           |            |
| 8        | 9               | 5           | 5           | 0          |
| 9        | q               | 5           |             | 0          |
| 10       | 10              | 5           | 5           | 0          |



|  | Date   |
|--|--|
| Exp  | ot. No   |
| The ball of the state of the st | Presantière:   |
|  | before living the power on, double which the wire to make sure that it is sorrect.                                   |
|  |  |
|  | Make sure that the Pauler supply to the Op-Amp is convectly wired as not to apply the in-convect polarity to Op-Amp. |
|  | as not to apply the the survey possessy  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |