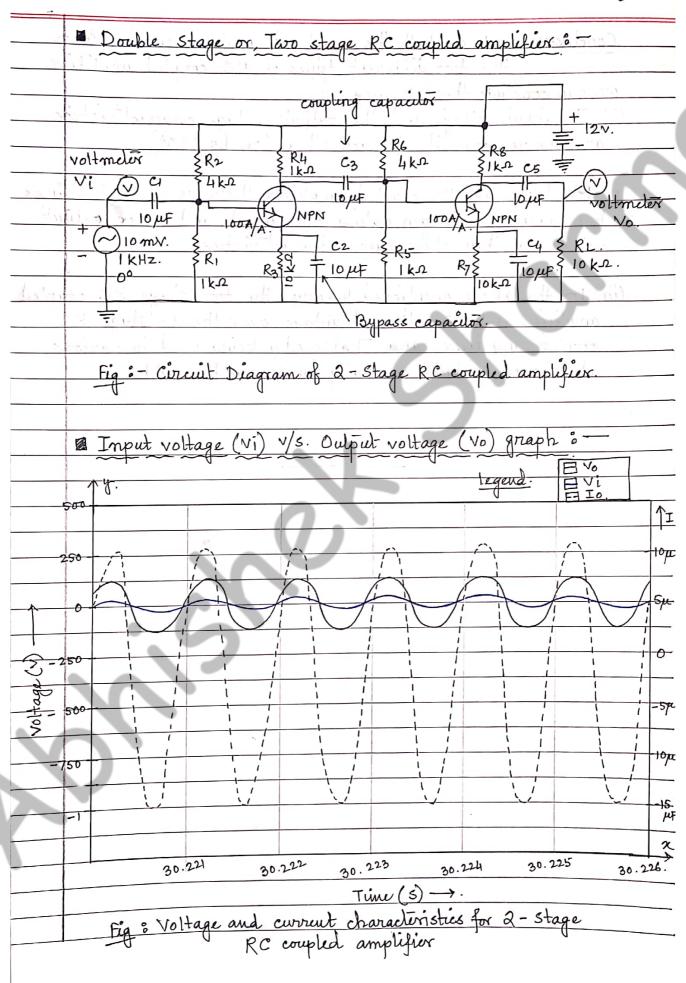
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	ANALOG ELECTRONICS CIRCUITS LAB.
	1) x 1/2 DAY - 3.
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1	12) MPM Touriston - 100 A/A.
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-	University of Engineering and Management, Kolkala Department of Computer Science & Engineering
	Department of Computer Science & Engineering
Sa. 13	illustration to the second of
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	Biasing is done by a potential divider arrangement using the resistors those are connected along with capacitors and the power source. The voltage across the resistor is connected through the resistors and thereby forward
	the resistors those are connected along with capacitors
	and the power source. The voltage across the resistor
	is connected through the resistors and thereby forward
	biasing the base emitter junction
N/ST	Two stage RC coupled amplifier: - When an AC input signal is applied at the base of the
1	is applied at the base of the
	first transistor, it gets amplified and appears at the collected
	load. Re which is then passed through the coupling amplifier
	CC to the next stage. This becomes the input of the next
	cc to the next stage. This becomes the input of the next stage and whose amplified output again across the collector load. Thus the signal is amplified in stage by stage action.
	load. Thus the signal is amplified in stage by stage action.
Y 15 .	The following are the advantages of RC coupled amplifier—  (i) The frequency response of RC amplifier provides  constant gain over a wide frequency range, hence most  suitable for audio applications.
	(1) The frequency response of RC amplifier prioridis
	constant gaw over a side frequency range, hence most
	suitable for audio applications.
	(ii) The circuit is simple and has lower cost because it employs resistors and capacitors which are very cheap.
	resistors and capacitors which are very cheap.
	(iii) It becomes more compact with the upgrading technology.
	Applications:
i i	Applications:  (i) They have excellent audio fidelity over a wide range of frequency.
10	frequency.
nd/	
	(ii) Widely used as voltage amplifiers.
	(iii) Due to poor impedance matching, RC coupling is rarely used in the final stages.
	used in the final stages.
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Disadvantages of RC coupled amplifier:
(i) The voltage and power gain are too low because of the effective load resistance.
(ii) They become noisy with age.
(iii) Due to poor impedance matching, power transfer will be low.
 107.3.
PROCEDURE for this experiment:
(a) Open Multi Sim Online live simulator in your browser and click on the new circuit to create the new circuit.
(b) Place the apparatus as per circuit diagram shown in the figures and connect the apparatus with the connecting wires to make the complete connection.
(c) After making the complete connection, add the voltmetures and ammeters from the probe section to take the reading of the input voltage (Vi) and output voltage (Vo) and additionally use can take the readings of the load current or, simply the output current (Io). These are
(d) Using the grapher, check the graph using the VI, Vo and Io, which shows the characteristics of the graph and the voltages of the RC coupled amplifier both 1 stage and 2-
The circuit diagnam and the graphical characteristics  are shown here—
P.T. 0



	Conclusion :- From both the graphical analysis coming from	m
	the two different types of RC coupled amplifi	ier
	the top saffessing -:	
	(i) The second the jumpared of a paracity is to	
	(1) The input voltage and the output voltage established	_
	Conclusion: From both the graphical analysis coming from the two different types of RC complet amplific we can conclude the following  (i) The input voltage and the output voltage characteristic are mirror opposite to each other (or, by 180°).	
	(ii) For two stage RC coupled amplifier there is no such the happenning while generating the input and voor out voltage as they show same characteristics.	rings
1,000	happenning while generating the input and voor out	out-
	voltage as they show same characteristics.	
	(iii) For the above mentioned luxury, the two stage RC complifier is having the advantage over the 1- stage R coupled amplifier. and That's why being used in various elubronics gadgets especially in the audio field.	rupled
	amplifier is having the advantage over the 1- stage R	c.
	and That's who have used in your	116
	coupled ampurer. and man same series as varies	
	electronics gadgets especially in the audio filla.	
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