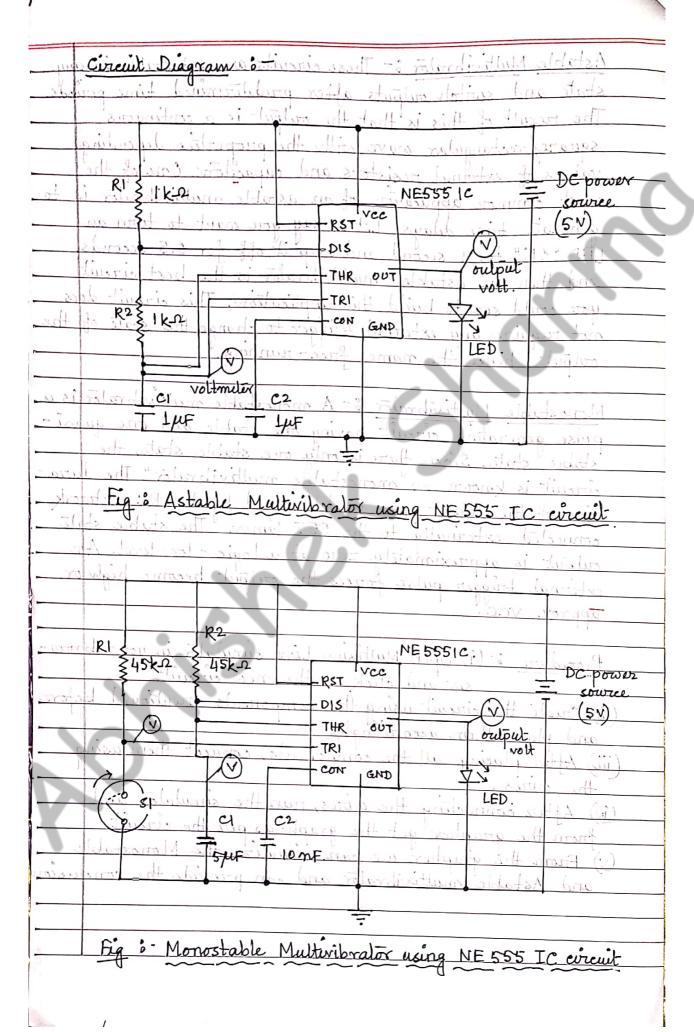
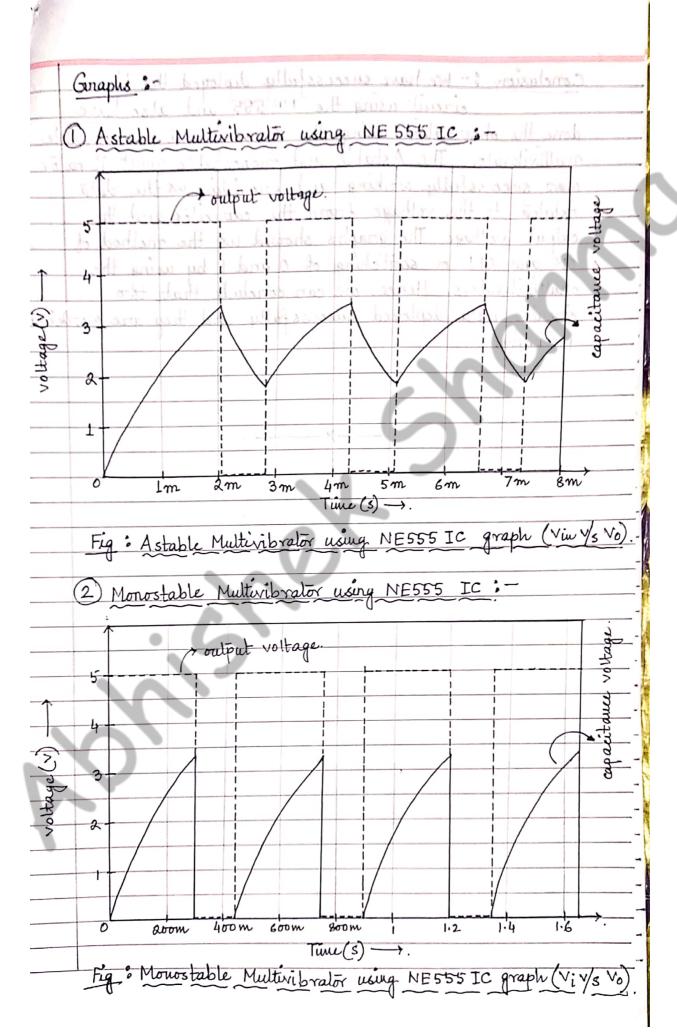
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Title 3- Study of times cincuit using NE 555 and embigunding
of Monostolic and Astable Mattivibrator.
S the
. Aim : The aim of this experiment is to study the multivilialing
- of different types such as Minastable and Astable
using the NE 555 IC.
ABHISHEK SHARMA.
Department of Computer Science & Engineering
THIRD YEAR
(V3) Somme Sections III)
ROLL NO.: 01
ENROLLMENT NO. : 12019009001127.
(vi) NE SES IC
ANALOG ELECTRONICS CIRCUIT LAB (DAY 5).
this mont of as ASSIGNMENT : 522 int -: mout
Jumps bezu (Experiment No. : 105) di brio
- purpose times intransted circuit. It can now in other one or
- test of the modes 10.09.20211 sham att to rest -
- Astable (no stable state). In the monostuble mode
Alde University of Engineering & Management & Kolkala
2 the multinbrain circuits can be configured anough
- this IC is one of the main reasons for its wide use.
- Design of an Astable multivibrator using 555 times TC
- generaling now-surveilal waveforum in the forum of
ware converse
Tima NE 555's pin details -
- (2) Trugger wout - par 2. (5) control - pin 5 - (3) output - pin 3. (6) Thresold - pin 6.
- (3) Discharge - pin 7 (8) + VCC - pay 8.

	Experiment No.: 5
	Date: - 10.09.2021.
	Title: - Study of timer circuit using NE 555 and configuration of Monostable and Astable Multivibrator.
	of Monostable and Astable Madevie Tax
	Aim :- The Bus is I is to study the multivibrate
	Aim: The aim of this experiment is to study the multivibrate of different types such as Monostable and Astable using the NE 555 IC.
	using the NE 555 IC.
	VITANC XHRSINGI
	Apparalus Regiured 3: (1) Resistors
	(iii) DC power courte (3)
	(iv) Gnound
	TELLOS CON TED MENTO SOLIS CONTRACTORION TO THE STATE OF
-	(vi) NE 555 IC
	(EXAC) CA THING (vii) voltimeters HI DOLAMA
	Theory: - The 555 timer is widely used as IC timer circuit
	and it is the most commonly used general
	purpose linear integrated circuit. It can run in either one or
_	two of the modes, Monostable (one stable state) or.
	Astable (no stable state). In the monostable mode.
	it can produce rectangler waveforms with a variable
	Duli cucle. The simplicity and can will colice to the
	Duty cycle. The simplicity and ease with which both
	the multivibrator circuits can be configured around
	this IC is one of the main reasons for its wide use.
	Design of an Astable multivibrator using 555 timer IC generating non-sinusoidal waveform in the form of
	generating now sinuspian waveform in the form of
	ramp waveforum.
	Time AIR ETE'S pin debails -
	Timer NE 555's pin details —
	1 Ground pin - pin 1 (4) Reset - pin 4.
	2 Trugger input - piw 2. 5 control - piw 5
	(3) output - pw 3. (6) Thresold - pw 6.
, Apr	(7) Discharge - piw 7 (8) + VCC - piw 8.

Astable Multivibrator :- These circuits are not stable in any state and switch oulputs after pruditirmined time periode a continuous The result of this is that the output is squarefreetangular wave with the properties values of external resistors and capacitors most common application of an astable multivibrator is generate time delays Let's say you want LED "ON" for I second and keep it off then an astable multivibrator is the you could see to build this application. This circuit not require any external trigger to change the state of the ordput, hence the name free- running Monostable Multivibrator :- A monostable multivibrator is a pulse generating circuit having one stable and one quasi-Since those is only one circuit is known as monostable trow of the output pulse is deliverened by the RC network connected externally to the 555 timer. put is approximately zero at a logic - low level. external trigger pulse forces the output become high or approx. vcc Procedure: (i) Open Multisum Live simulator in your brown ser and click on the new the circuit using the components mentioned and place them accordings (iii) After placing components, connect them using the wires (in) After connecting the wores, run the from the grapher get the graph as pur the circuit (v) From the grapher we can visualize the Monostable and Astable multivibrator and can provide the





Conclusion: - We have successfully deployed the circuit using the NE 555 and also multivibrators. SMV M.L wr 3 m. graph 2.1 13.1 1.2 CODW S.brown (inuc(s) Multivibrator using NESSSIC graph (Ni Vs