




LINEAR I C APPLICATIONS LAB  
ELECTRONIC CIRCUIT ANALYSIS LAB


3N3




**ANDHRA LOYOLA**  
 INSTITUTE OF ENGINEERING AND TECHNOLOGY  
VISHAKHAPATNAM - 520016  
 DEPT. OF ELECTRONICS AND COMMUNICATION ENGINEERING  
**PULSE & DIGITAL CIRCUITS LAB**  
Reg. No. 1304001208 Page. 8/11

**List of Experiments**

1. Linear wave shaping.
2. Non Linear wave shaping - Clippers.
3. Non Linear wave shaping - Clampers.
4. Transistor as a switch.
5. Study of Logic Gates & Some applications.
6. Study of Flip-Flops & some applications.
7. Sampling Gates.
8. Astable Multivibrator.
9. Monostable Multivibrator.
10. Bistable Multivibrator.
11. Schmitt Trigger.
12. UJT Relaxation Oscillator.
13. Bootstrap sweep circuit.


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**LIC APPLICATIONS LAB**  
Reg. No. 1304001208 Page. 8/13

**List of Experiments**

1. Study of ICs - IC 741, IC 555, IC 565, IC 566, IC 1496 - functioning, parameters and Specifications.
2. OP AMP Applications - Adder, Subtractor, Comparator Circuits.
3. Integrator and Differentiator Circuits using IC 741.
4. Active Filter Applications - LPF, HPF (first order)
5. Active Filter Applications - BPF, Band Reject (Wideband) and Notch Filters.
6. IC 741 Oscillator Circuits - Phase Shift and Wien Bridge Oscillators.
7. Function Generator using OP AMPs.
8. IC 555 Timer - Monostable Operation Circuit.
9. IC 555 Timer - Astable Operation Circuit.
10. Schmitt Trigger Circuits - using IC 741 and IC 555.
11. IC 565 - PLL Applications.
12. IC 566 - VCO Applications.
13. Voltage Regulator using IC 723.
14. Three Terminal Voltage Regulators - 7805, 7809, 7912.
15. 4 bit DAC using OPAMP.







BENCH-9  
BENCH-10

BENCH-1  
BENCH-2

BENCH-3  
BENCH-4

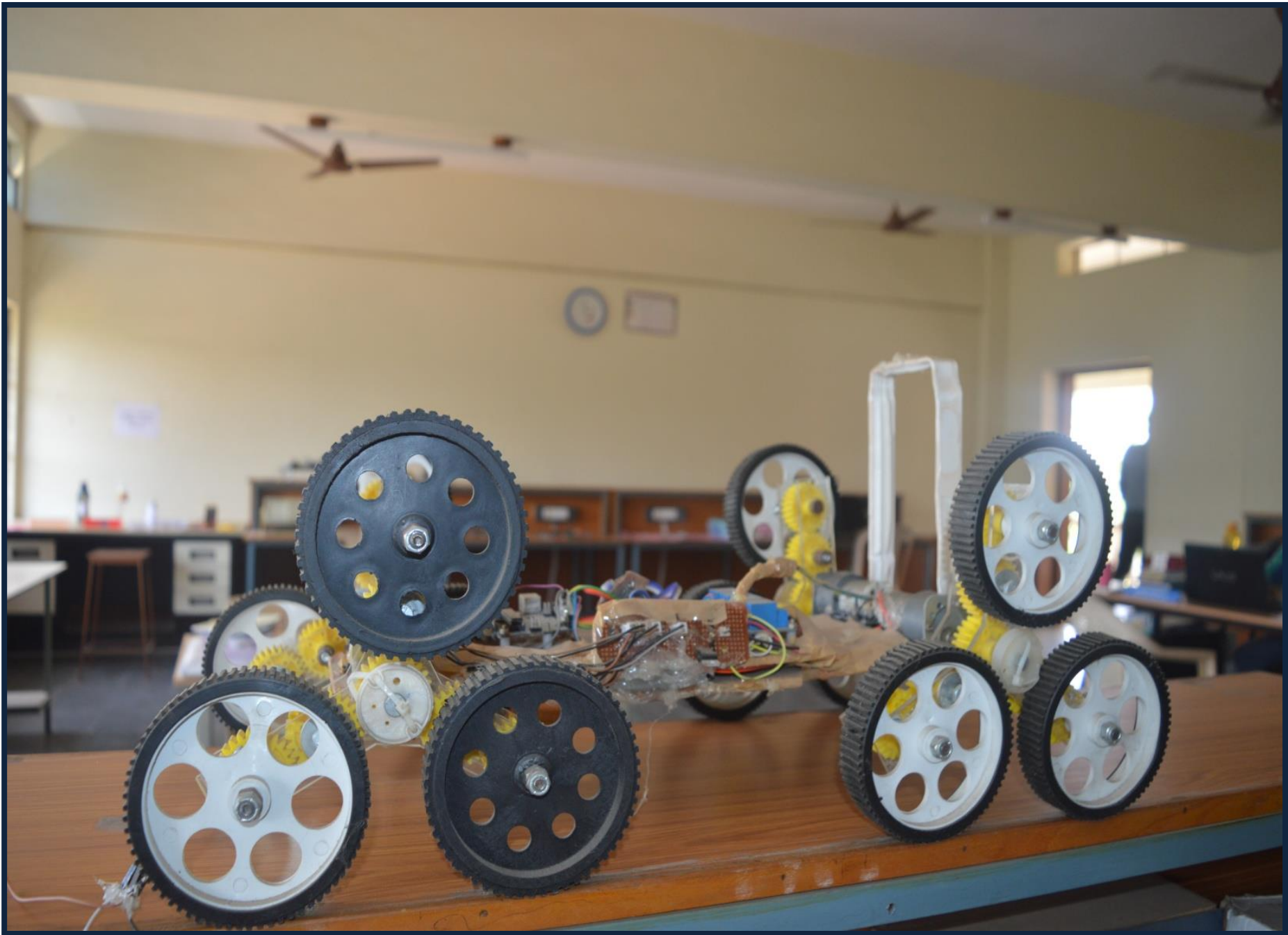


INCUBATION  
CENTER  
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 **Dr. A P J Abdul Kalam Research Forum**  
Department of Electronics & Communication Engineering 











PCB & ANTENNA  
FABRICATION  
SETUP



MICRO WAVE ENGINEERING & OPTICAL LAB

ANALOG COMMUNICATIONS LAB

DIGITAL COMMUNICATIONS LAB

4N1





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ANALOG COMMUNICATIONS LAB  
List of Experiments

1. AM Modulation
2. AM-DSB-SC Modulation & Demodulation
3. SSB Modulation
4. Frequency Modulation
5. Phase Modulation
6. Frequency Shift Keying
7. Differential Phase Shift Keying
8. Pulse Width Modulation
9. Sampling Theorem
10. Filter Bank Modulation - Modulation and Demodulation
11. PCM - Modulation & Demodulation
12. DPCM - Modulation & Demodulation
13. Constellation Code - Encoder and Decoder

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DIGITAL COMMUNICATIONS LAB  
List of Experiments

1. Error detection and correction
2. Pulse code modulation
3. Differential pulse code modulation
4. Delta modulation
5. Frequency shift keying
6. Phase shift keying
7. Differential phase shift keying
8. Companding
9. Source Encoder and Decoder
10. Linear Block Code - Encoder and Decoder
11. Binary Cyclic Code - Encoder and Decoder
12. Convolutional Code - Encoder and Decoder

**ANHILA LOYOLA**  
UNIVERSITY OF ENGINEERING AND TECHNOLOGY  
DIGITAL COMMUNICATIONS LAB  
List of Experiments

1. Error detection and correction
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# MICROPROCESSORS & MICROCONTROLLERS LAB





**VLSI LAB**

**DIGITAL SIGNAL PROCESSING LAB**

**DIGITAL SYSTEM DESIGN & DICA LAB**

151





Module

- 1. To identify the factors which are responsible for global warming
- 2. To analyze the impact of global warming on the environment
- 3. To analyze the measures to be taken to reduce global warming

Topic:

- Global warming, impact of global warming, causes of global warming, effects of global warming, measures to be taken to reduce global warming.


Module: Environmental Science

Unit: 1. Environmental Science

Chapter: 1. Environmental Science

Page: 1-10

Global warming is the increase in the average temperature of the Earth's atmosphere and oceans, which is caused by the greenhouse effect. The greenhouse effect is caused by the trapping of heat by the greenhouse gases in the atmosphere. The greenhouse gases are carbon dioxide, methane, and water vapor. The increase in the concentration of these gases in the atmosphere is due to the burning of fossil fuels and the deforestation of forests. The increase in the temperature of the Earth's atmosphere and oceans is causing a rise in sea levels, a decrease in the amount of snow and ice, and a change in the weather patterns. The increase in the temperature of the Earth's atmosphere and oceans is also causing a rise in the number of extreme weather events, such as hurricanes, droughts, and floods.


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**DIGITAL SIGNAL PROCESSING LAB**  
3rd Year - II SEMESTER

**List of Experiments**

1. To study the architecture of DSP chips - TMS 320C 5X/XX instructions.
2. To verify linear convolution.
3. To verify the circular convolution.
4. To design FIR filter (LPHP) using windowing technique.
  - a) Using rectangular window
  - b) Using triangular window
  - c) Using Kaiser window
5. To Implement IIR filter (LPHP) on DSP Processors
6. N-point FFT algorithm.
7. MATLAB program to generate sum of sinusoidal signals.
8. MATLAB program to find frequency response of analog LPHP filters.
9. To compute power density spectrum of a sequence.
10. To find the FFT of given 1-D signal and plot.


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**VLSI LABORATORY**  
3rd Year - II SEMESTER

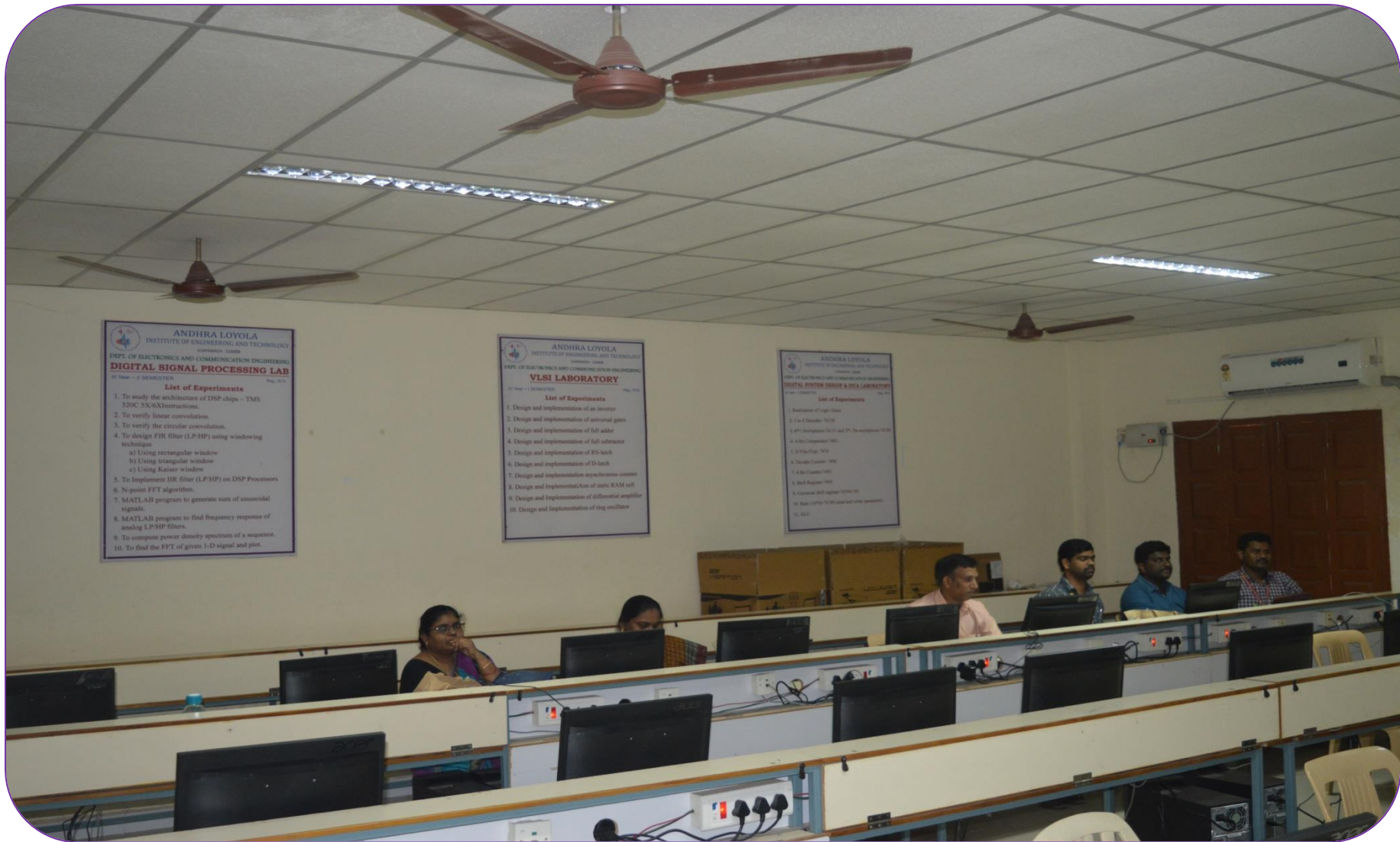
**List of Experiments**

1. Design and implementation of an inverter
2. Design and implementation of universal gates
3. Design and implementation of full adder
4. Design and implementation of full subtractor
5. Design and implementation of D-latch
6. Design and implementation of RS-latch
7. Design and implementation asynchronous counter
8. Design and implementation of static RAM cell
9. Design and implementation of differential amplifier
10. Design and implementation of ring oscillator


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**DIGITAL SYSTEM DESIGN & LOGIC LABORATORY**  
3rd Year - II SEMESTER

**List of Experiments**

1. Realization of Logic Gates
2. 7-seg Decoder - 74138
3. 8421 BCD to 74138
4. 8421 BCD to 74138
5. 10 Map-Map - 74138
6. Decoder Counter - 7490
7. 4 Bit Counter - 7493
8. 4 Bit Register - 7497
9. Counter with register - 7497
10. Shift Register - 7494 and 7495
11. ALU





# The Institution of Engineers

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Former President of the Institution

Chairman

Dr. F. ...

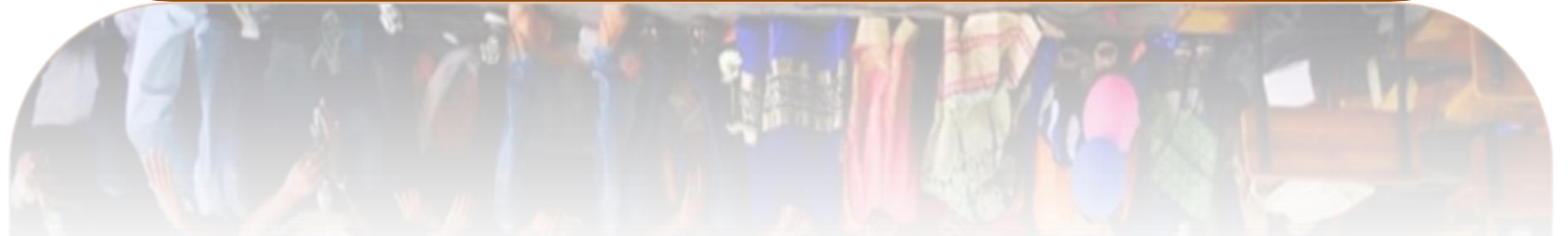
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A TWO DAY WORKSHOP  
On  
"Role of Transducers & Programmable Devices in  
Control & Medical Applications Using IOT"

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ANDHRA LOYOLA INSTITUTE OF  
ENGINEERING & TECHNOLOGY

National Conference & Seminar on  
ELECTRONICS, Instrumentation and  
Embedded Systems

**NCCIEC - 19**  
15th March 2021

Organized by the Department of  
Electronics & Instrumentation Engineering



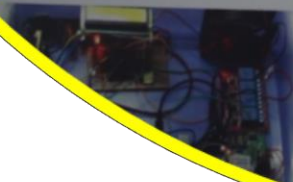
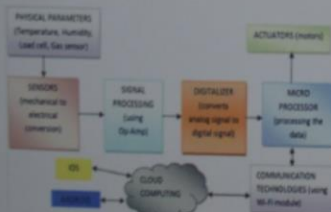
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Department of Electronics and Communication Engineering  
Dr. A P J Abdul Kalam Research Forum



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