K.K.Wagh Institute of Engineering Education and Research

Hirabai Haridas Vidyanagari, Mumbai Agra Road Amrutdham, Panchavati, Nashik, Maharashtra 422003

Webinar Report

TOPIC: Future in Electronics as an Entrepreneur

RESOURCE PERSON: Mr.Sanjay Atmaram Chaudhari, Director, Electronics Study Centre

DATE: 16/09/2021

ATTENDEES:

- Prof. Dr. D. M. Chandwadkar (HoD)
- Staff of E&TC and Electronics department
- Students of T.E E&TC
- Students of TE ELTX
- Students of SE E&TC
- Students of SE ELTX
- The members of IETE , Nashik

DURATION: 2 hours

NUMBER OF ATTENDEES: 160+

POS MAPPED: PO1, PO2, PO12

OUTCOMES:

1. At the end of this webinar, students were made aware of how to identify various electronic components just by observation easily and how they can be tested and also identified using Digital Multimeter and other testing instruments.
2. Also this webinar was extremely helpful for students who were mainly interested in core electronics as their career option and also helped in skill development of students in the field of electronics.

SUMMARY:

Department of Electronics and Telecommunication Engineering in collaboration with IETE, Nashik Sub-Center organized a session on “Future in Electronics as an Entrepreneur” on 16th September 2021.The webinar was meant for the skill development in field of core electronics for students of Second year and Third year E&TC and ELTX.

The speaker and chief guest of this webinar was Sanjay Chaudhari sir, Director of Electronics Study Centre who also had a job profile as a lecturer for almost 20 years in the Bhusawal P.O. Nahata College. The webinar was conducted using the Zoom video conferencing online platform. A brief introduction of Sanjay Chaudhari was given and he was welcomed by Rupali Chothe mam. Sanjay Chaudhari sir primarily discussed about how electronics can be made simple to understand and fun to work in by comparing general life examples and various aspects of electronics engineering. He in a simple but efficient manner introduced all the students with various electronic components such as diodes, resistors, transistors and explained about how they have to identified accurately and check for any faults within them.

Few minutes into the session it felt as if it was more of an actual industrial visit instead of a virtual session. With his amazing way of teaching and hilarious means of comparing various Bollywood films, actors, cartoons and daily life examples he made the session quite lively also at the same time making sure all the basics of core electronics be grasped by the students easily without any confusion.

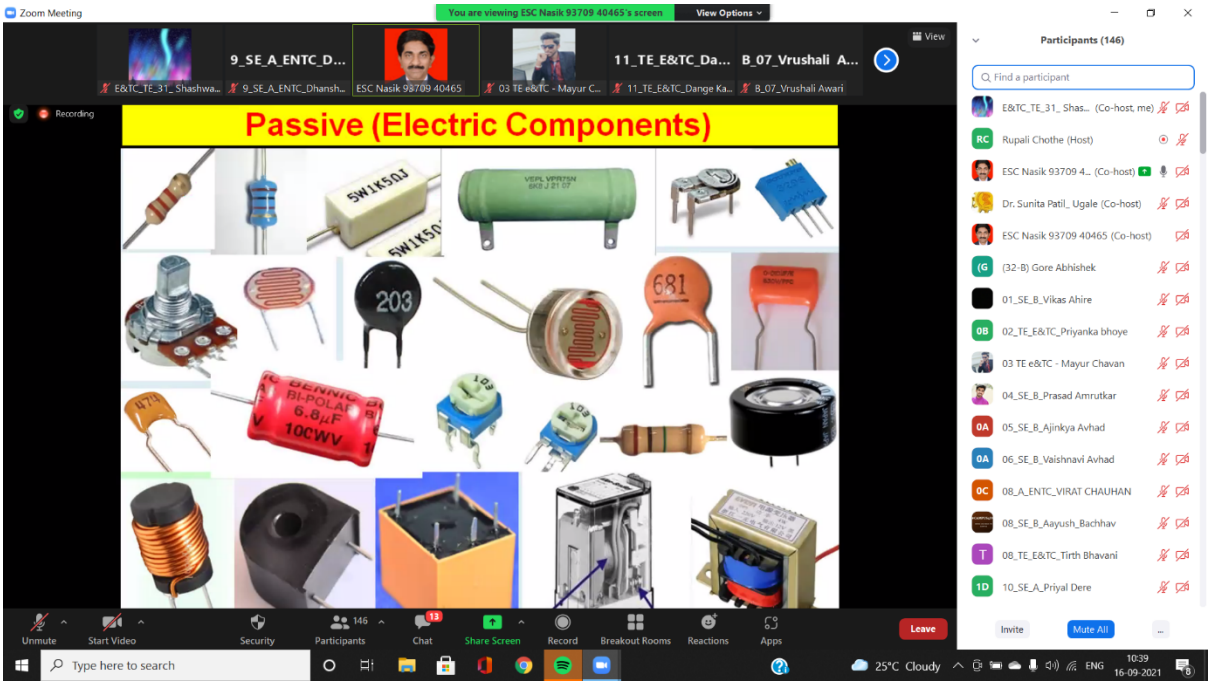
He interacted with students and asked them various twisted questions to check the practical knowledge of the students in electronics. He explained the colour codes of resistors, different types of transistors, capacitors, diodes and their testing on DMM.

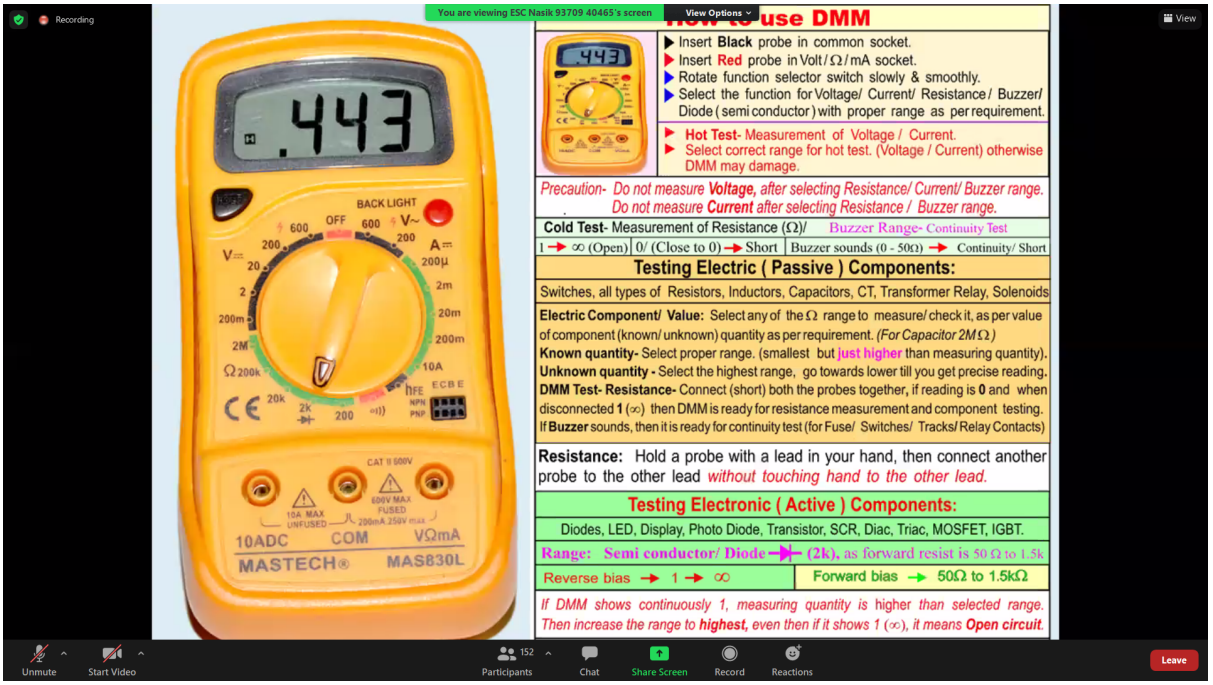
He also represented how could different mechanical parts be identified by electronic testing. He at the latter of the webinar displayed the innovative circuits which he had made using his expertise in core electronics and also influenced and encouraged the students to try such kind of innovative ideas and make them true in the form of projects and not just limiting them to imaginary manifestations.

Finally the webinar was concluded with sir encouraging students for getting trained and getting skill in the sector of core electronics and promised to guide anyone interested in establishing startups related to the same.

This webinar was conducted under the guidance of HOD Prof. Dr D.M.Chandwadkar sir and Academic co-ordinator Dr.S.P.Ugale mam. It was organized by Prof. R.V.Chothe mam. All staff members of E&TC and ELTX department were present. All the students of Second year and Third year E&TC and ELTX found the webinar quite knowledgeable and enlightening and would be looking forward for many such sessions in the near future.

SCREENSHOTS AND SOME GLIMPSES OF WEBINAR:





Recording

You are viewing ESC Nasik 93709 40465's screen

View Options

View

DMM Internal Circuit

From 08_SE_B_Aayush_Bachhav to Everyone

S

Unmute | Start Video | 154 Participants | Chat | Share Screen | Record | Reactions | Leave

Recording

You are viewing ESC Nasik 93709 40465's screen

View Options

View

Diode Testing

Select range 2k, To verify DMM working, connect both probes together, it **must show 0**

Testing- Connect given two terminal device across DMM probes in any manner it may show **Reverse**/ **Forward** bias.

In one direction **Reverse bias 1 (∞)**

By replacing DMM probe polarity it shows

Forward bias (50Ω TO 1.5kΩ)

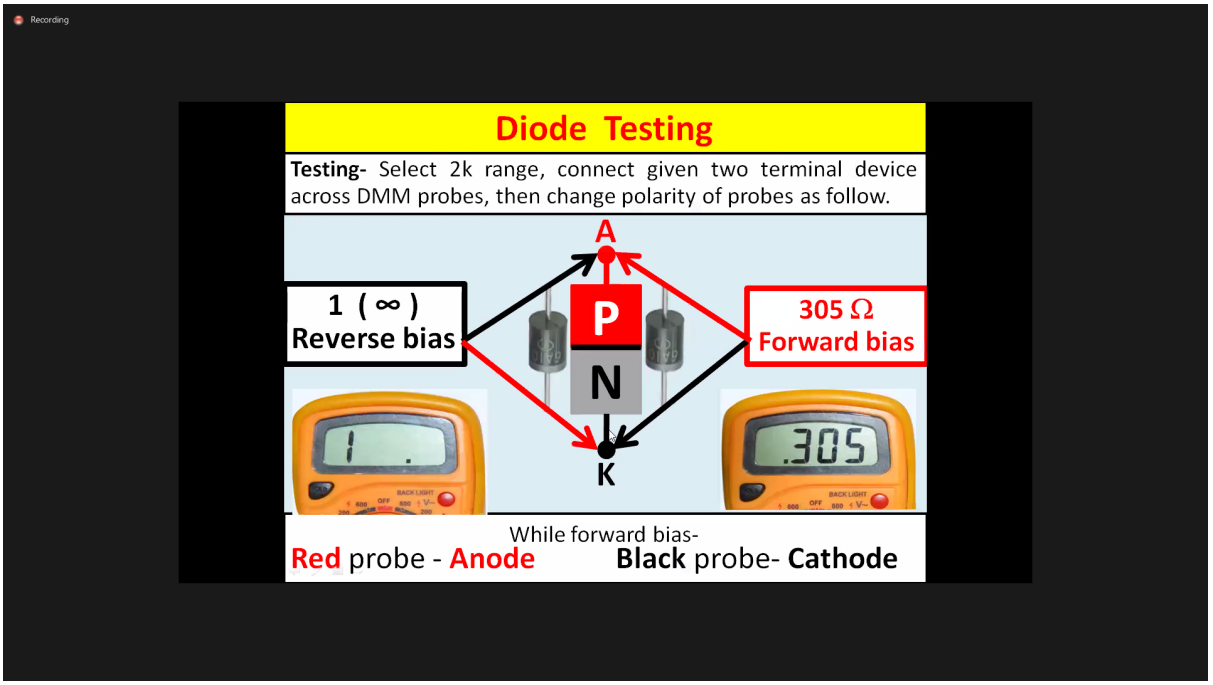
It's a confirm Diode

While DMM shows forward bias

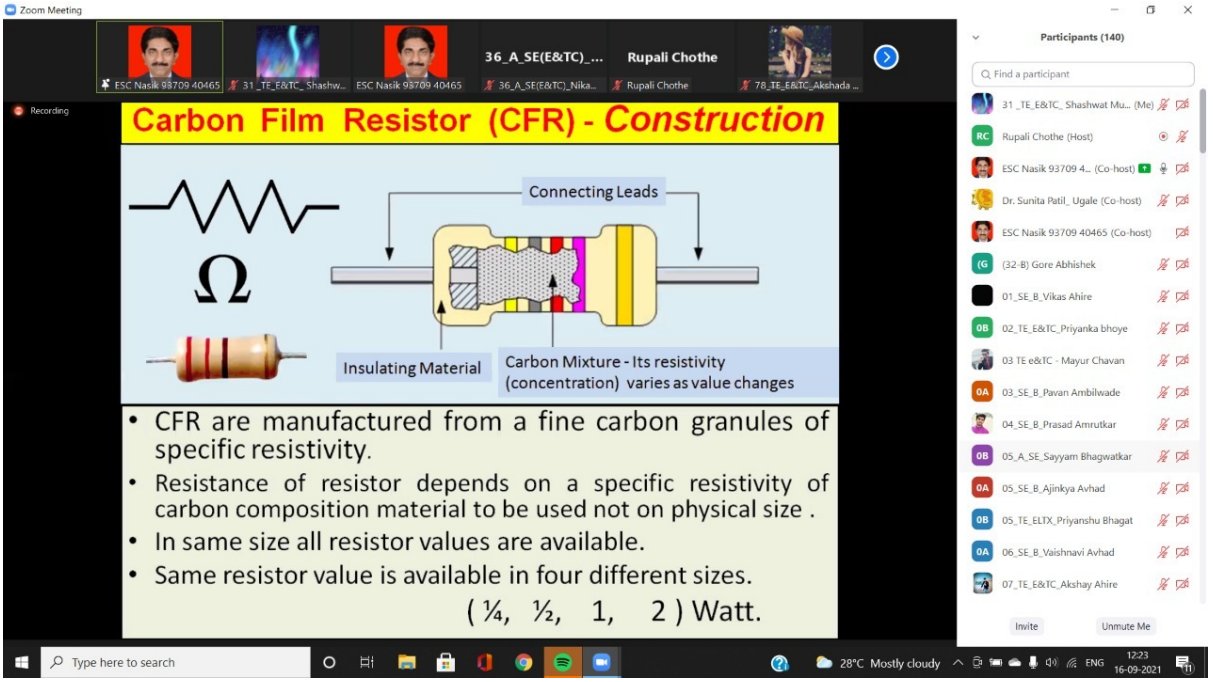
Red probe connected terminal is **Anode**

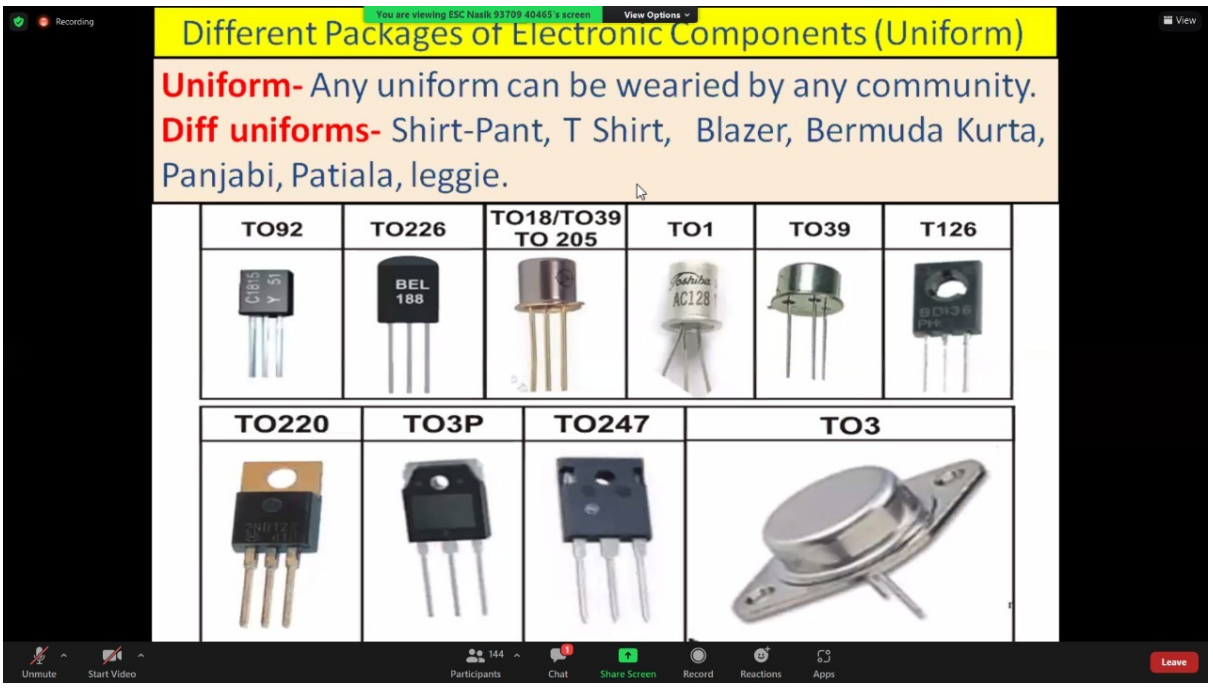
Black probe connected terminal is **Cathode**

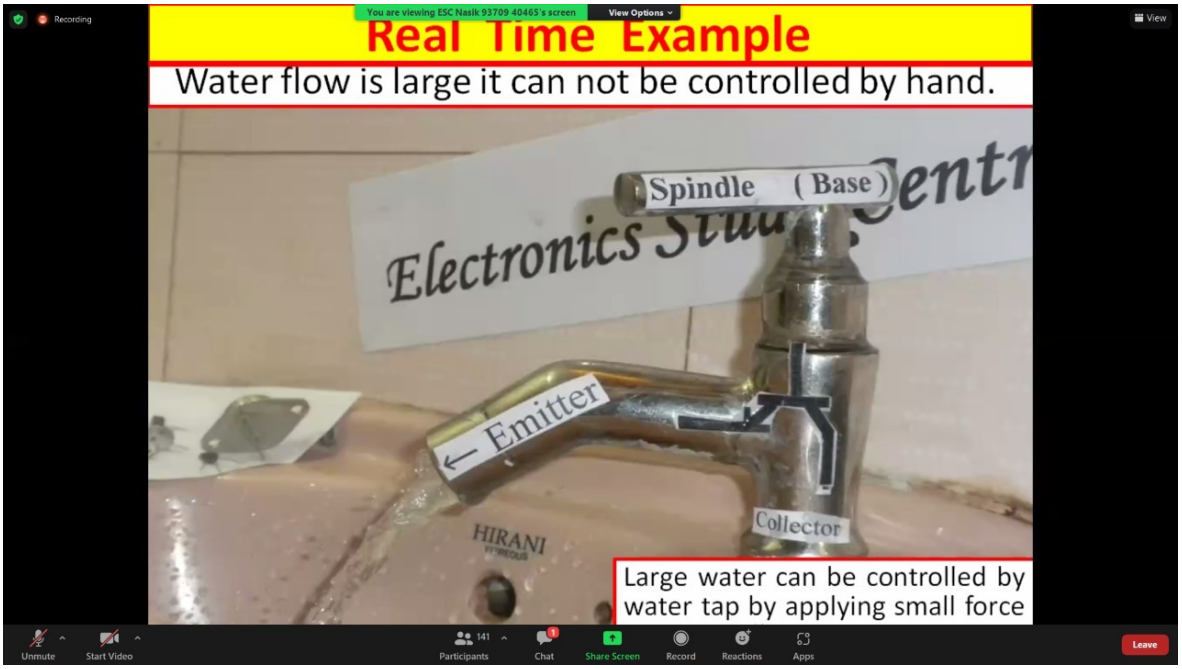
Unmute | Start Video | 156 Participants | Chat | Share Screen | Record | Reactions | Leave


Recording
Diode Testing
Testing- Select 2k range, connect given two terminal device across DMM probes, then change polarity of probes as follow.
A
1 (∞)
Reverse bias
P
N
305 Ω
Forward bias
K
While forward bias-
Red probe - Anode
Black probe- Cathode


Zoom Meeting
36_A_SE(E&TC)_...
Rupali Chothe
Participants (149)
ESC Nasik 93709 40465
Unmute
Start Video
Participants
Chat
Share Screen
Record
Reactions
Apps
Leave
Invite
Unmute Me
Type here to search
28°C Partly sunny
ENG
11:54
16-09-2021


Zoom Meeting
Recording
Carbon Film Resistor (CFR) - Construction
Connecting Leads
Insulating Material
Carbon Mixture - Its resistivity (concentration) varies as value changes
• CFR are manufactured from a fine carbon granules of specific resistivity.
• Resistance of resistor depends on a specific resistivity of carbon composition material to be used not on physical size .
• In same size all resistor values are available.
• Same resistor value is available in four different sizes.
(¼, ½, 1, 2) Watt.
Participants (140)
Type here to search
28°C Mostly cloudy
ENG
12:23
16-09-2021


Recording
You are viewing ESC Nasik 93709 40465's screen
View Options
View
Different Packages of Electronic Components (Uniform)
Uniform- Any uniform can be wearied by any community.
Diff uniforms- Shirt-Pant, T Shirt, Blazer, Bermuda Kurta, Panjabi, Patiala, leggie.
TO92
TO226
TO18/TO39 TO 205
TO1
TO39
T126
TO220
TO3P
TO247
TO3
Unmute
Start Video
Participants
Chat
Share Screen
Record
Reactions
Apps
Leave


Recording
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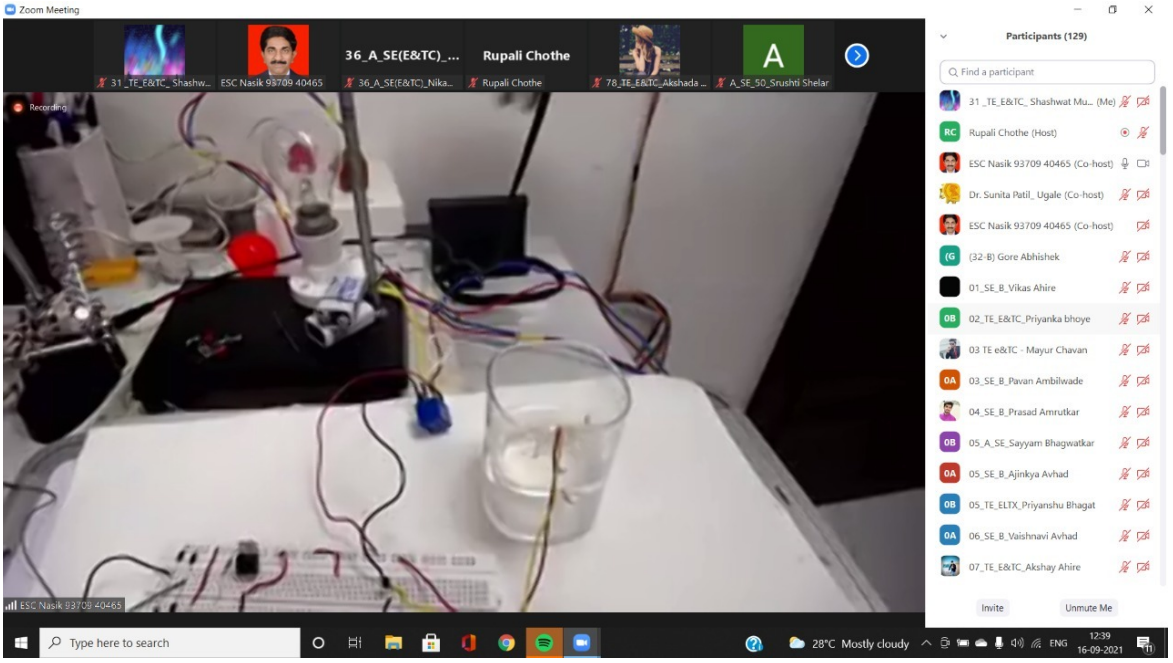
View Options
View
Real Time Example
Water flow is large it can not be controlled by hand.
Spindle (Base)
Electronics
← Emitter
Collector
HIRANI
Large water can be controlled by water tap by applying small force
Unmute
Start Video
Participants
Chat
Share Screen
Record
Reactions
Apps
Leave


Zoom Meeting
36_A_SE(E&TC)_...
Rupali Chothe
Recording
ESC Nasik 93709 40465
Participants (129)
Find a participant
Invite
Unmute Me
Type here to search
28°C Mostly cloudy
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12:39
16-09-2021