

Preparation of Online Lecture through OBS Studio

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Pedagogical Training for Teachers on Tools for Teaching Learning and
Evaluation
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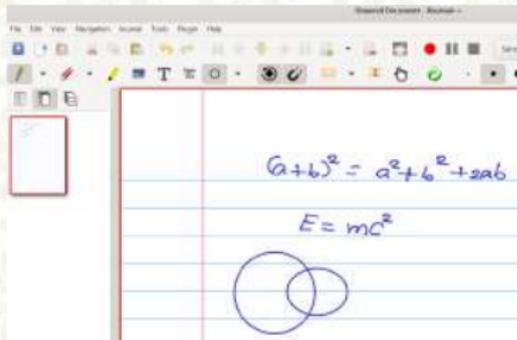
- Prepare content for Online Lecture :Presentation is preferred
- Different digital Platforms to deliver lecture: Zoom, Google Meet, Microsoft Teams, OBS
- Learning Management Systems to connect with students: Google Classroom, Edmodo, Moodle
- Various tools for conducting online exams for student assessment: Google forms, Microsoft forms, Testmoz, Kahoot
- Youtube : Huge repository of educational videos and learning channels.



- There are many platforms through which we can connect with students and deliver lectures online
- Some of them are free upto some extent, some are paid and some are completely free and open source software
- Zoom Meeting (most popular and very user friendly)
- Google Meet
- Microsoft Teams
- Open Broadcaster Software (OBS)- completely free- we recommend- you decide.



- Prepare the content of the lecture in presentation form.
- Use MS power point or \LaTeX beamer for presentations.
- Make sure each slide has limited content.
- Restrict entire lecture to maximum of 50 minutes duration.
- Avoid reading the content as it is, instead explain the summary with examples, etc.
- Keep focus on the main topic.
- State the objectives of the lecture at the beginning.
- Engage students through discussions and home assignments
- Provide the content in advance to students so that they can go through it before the online lecture.

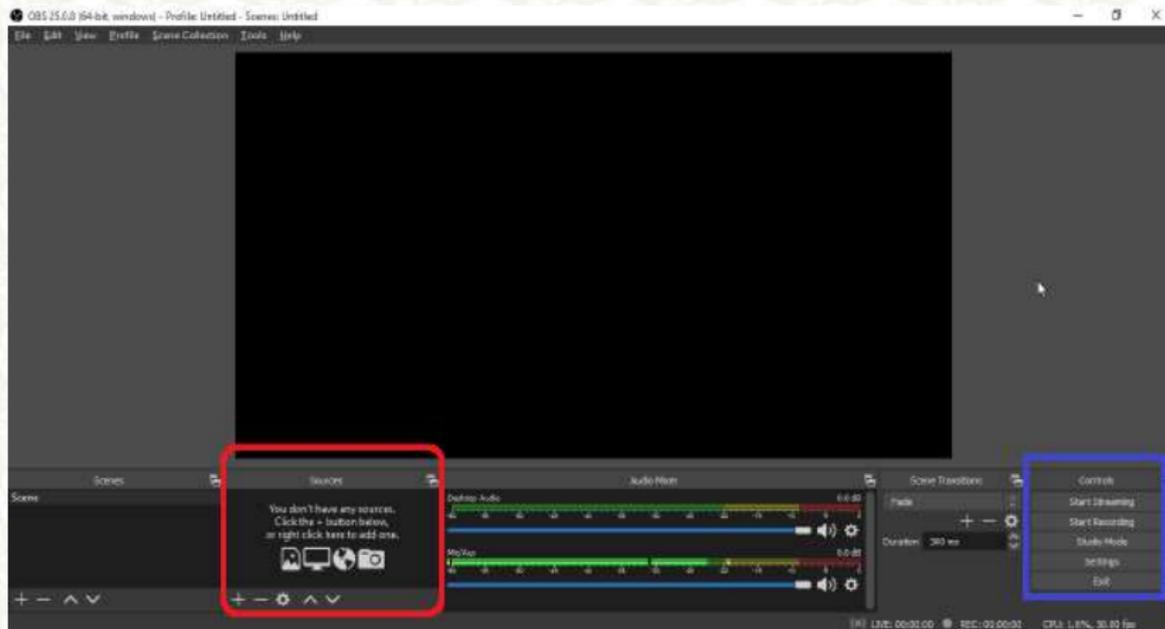


- Xournal++ is a handwriting note taking software.
- Pen tablet (e.g. iball, cost less than Rs.5000) is very much useful for virtual writing.
- Epic Pen: Write and draw over any software with Epic Pen, the worlds most popular screen marker

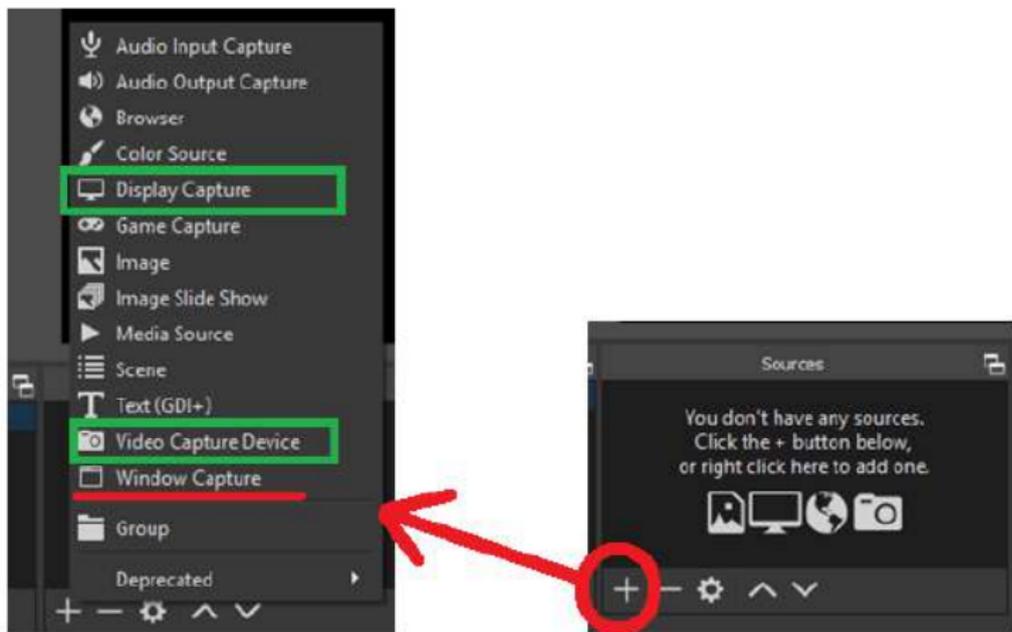


- Download the latest OBS Studio from the official website:
- Windows 64 bit:<https://cdn-fastly.obsproject.com/downloads/OBS-Studio-25.0.8-Full-Installer-x64.exe>
- Windows 32 bit:<https://cdn-fastly.obsproject.com/downloads/OBS-Studio-25.0.8-Full-Installer-x86.exe>
- Install OBS Studio and we are ready to use.
- We can use OBS for recording our computer screen and going Live on platforms like Youtube, Facebook, etc.

Open Broadcaster Software(OBS)-Layout

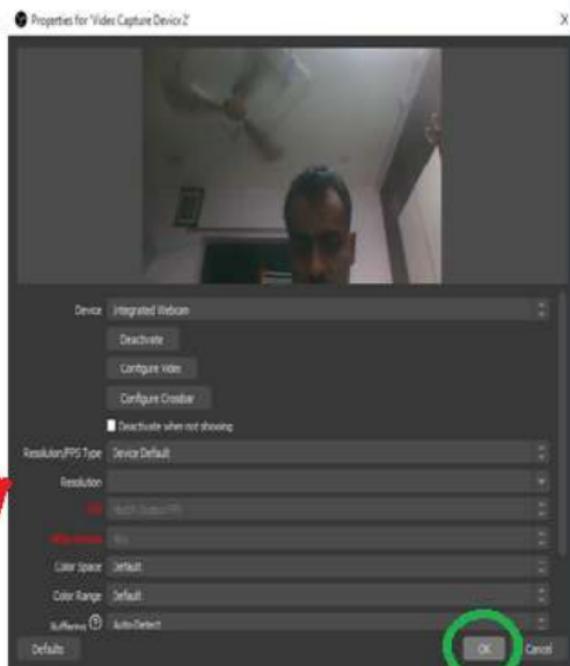
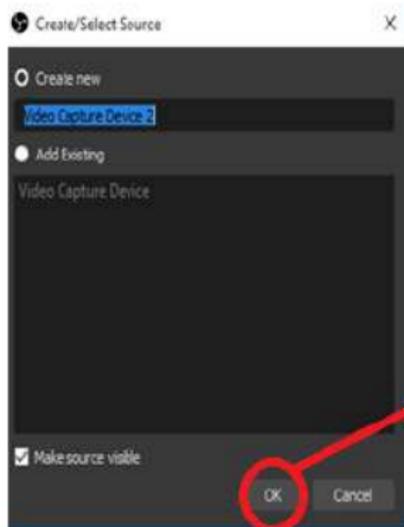


- **Sources:** We can add Display Capture, Video Capture, Window Capture, etc.
- **Controls:** Start Live streaming, Recording, Settings, etc.

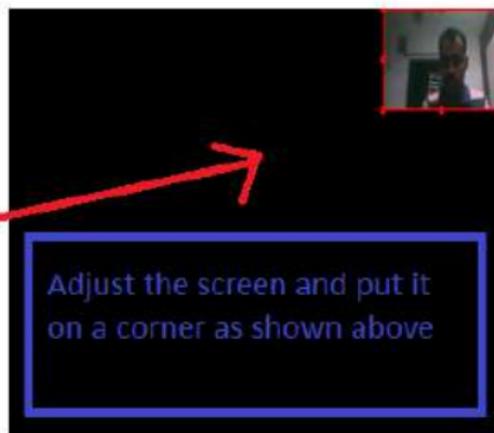
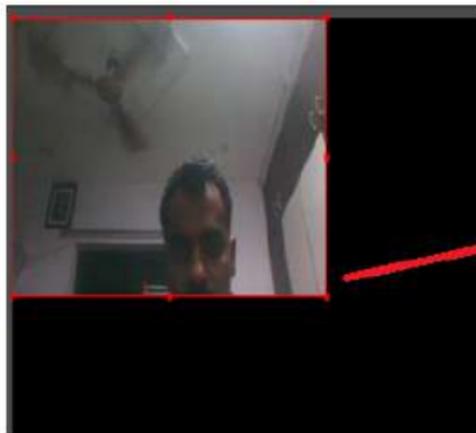


- Click on plus symbol and add the required sources.
- For example, Video Capture Device, Display Capture.

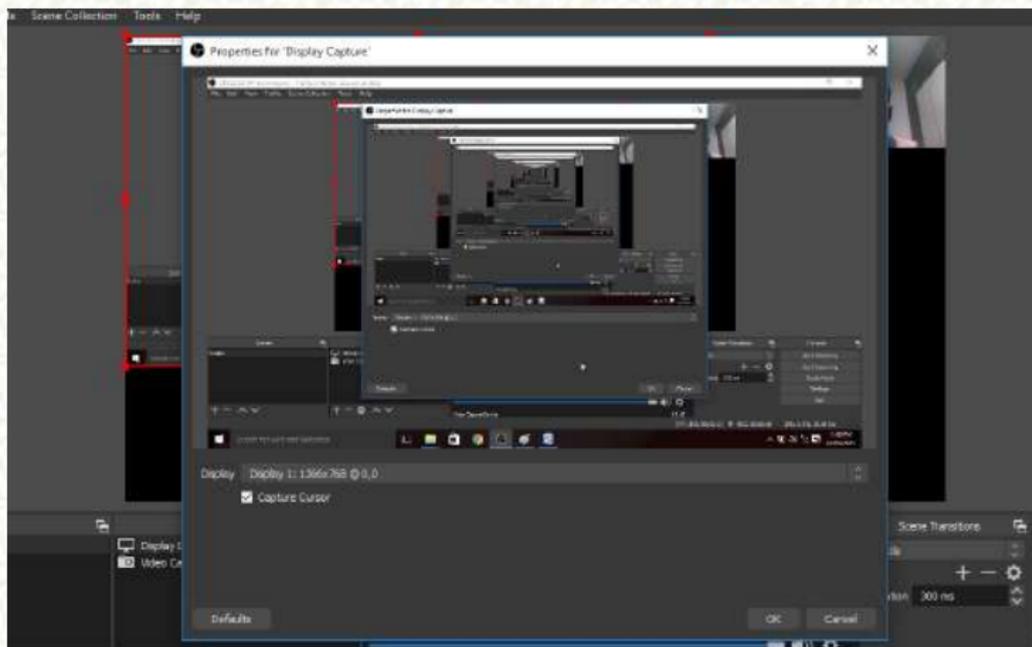
Adding Video Capture Device



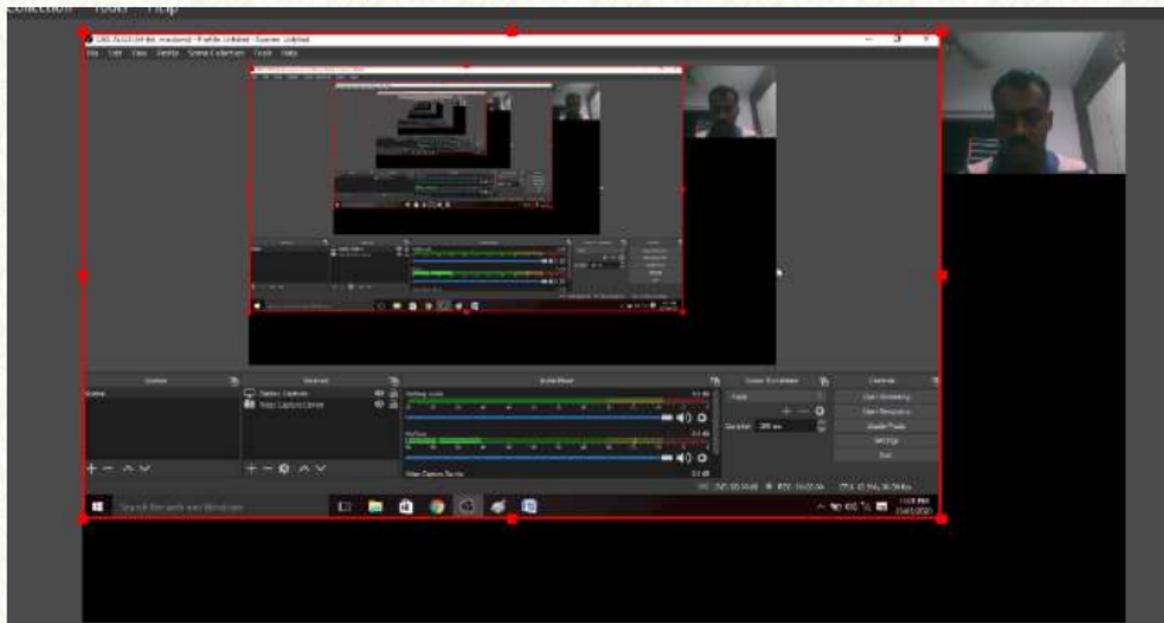
Position of Video Capture Device



Adding Display Capture



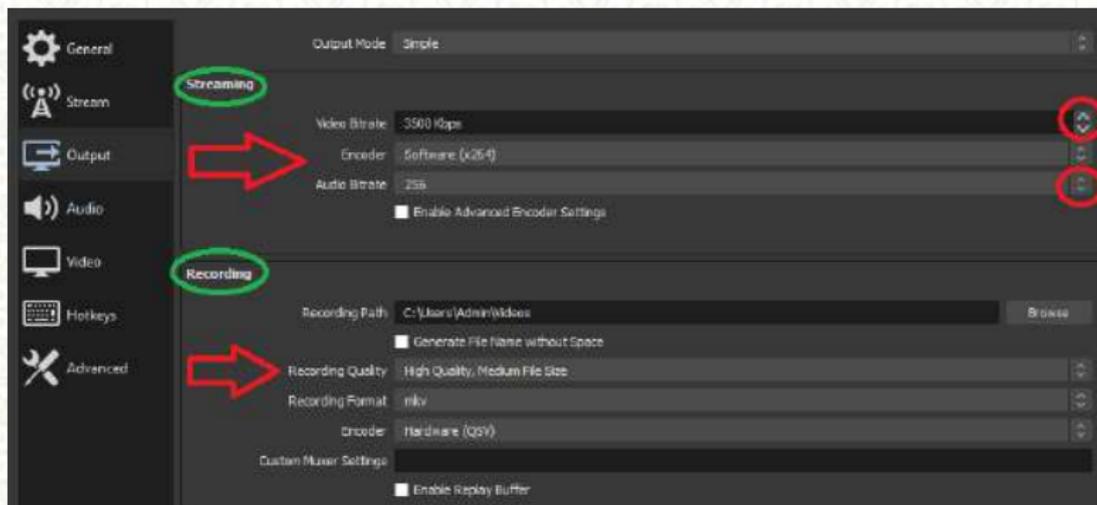
Placement of both sources



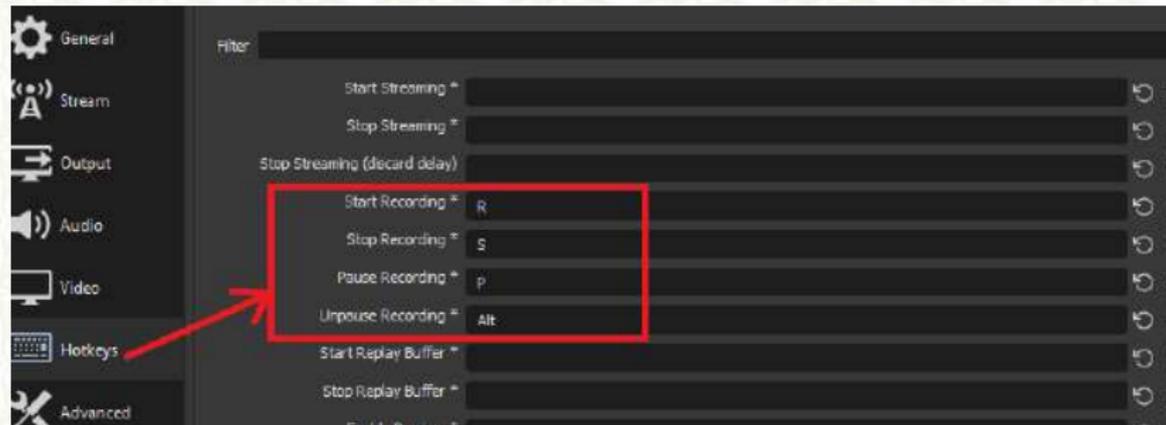
The final output of the recording will be displayed in the above frames.



- Click on Start Streaming/Recording to stream or record the lecture.
- Click on Settings for different options.

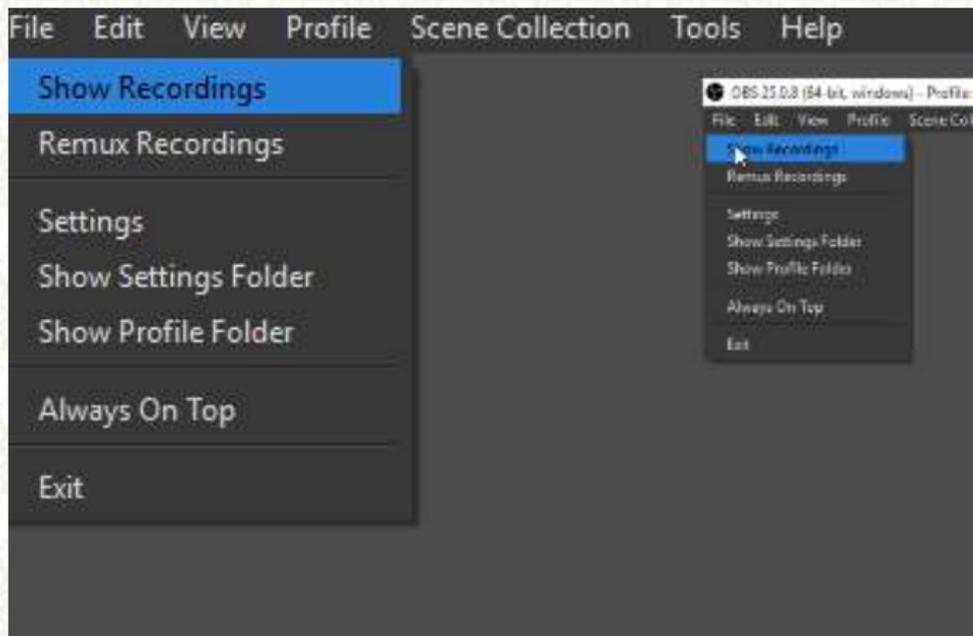


- Change the streaming quality, default settings are fine most of the time.
- Adjust Recording settings as per user requirements.



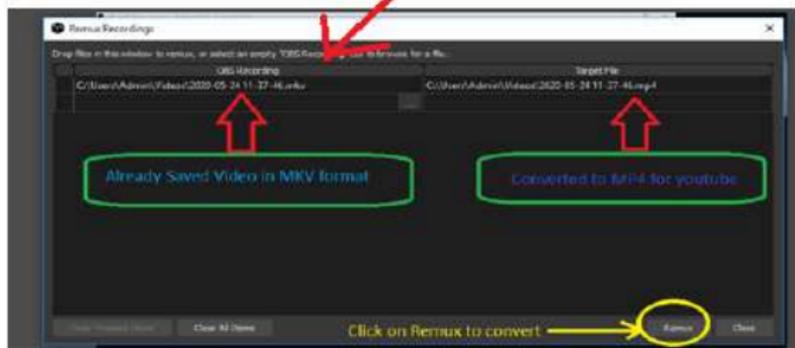
We can assign shortcut keys for almost all features available in OBS.

How to find recorded videos

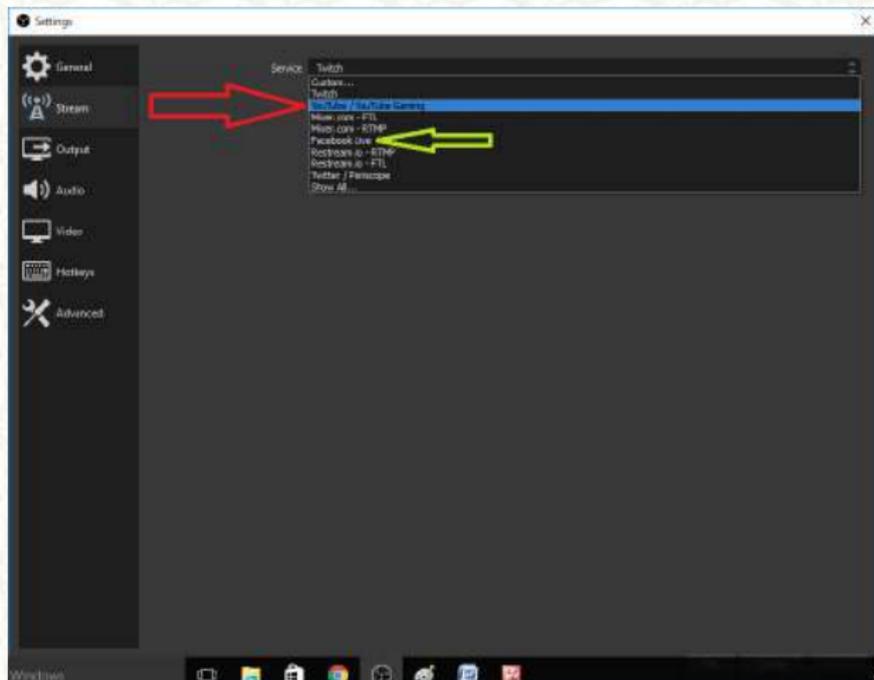


- Goto File then click on Show Recordings to open the saved videos.

Converting videos to MP4 format

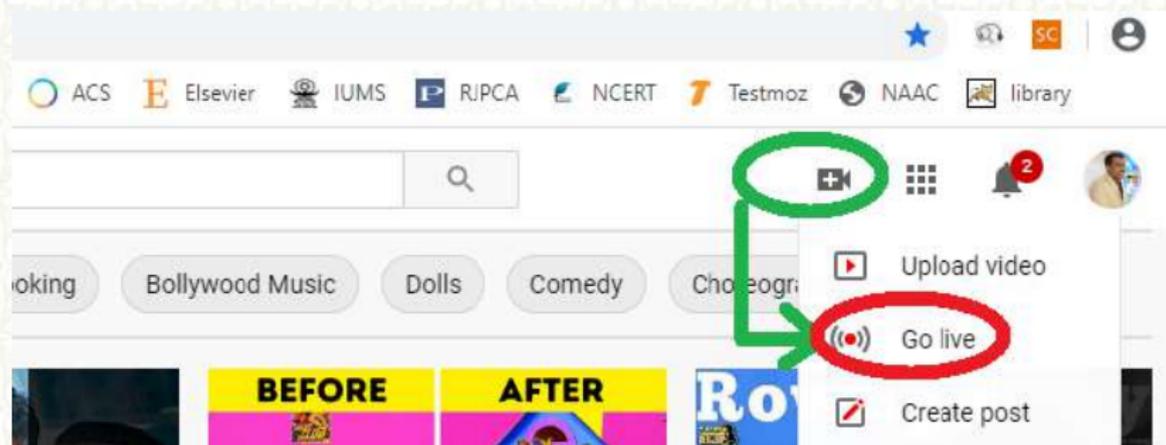


- Goto File then select Remux Recordings.
- Select the video to be converted to MP4 and click on Remux button to convert.



- From controls select settings, then click on Stream
- Select the platform to stream the lecture, say Youtube.

Youtube Live Streaming through OBS



- Long in to youtube account and click on plus symbol
- Select "Go Live" to proceed further.

Youtube Live Streaming through OBS



Online Lecture

Public

Add a description

Education

Schedule for later

Mon, May 25 10:10 AM

ANALYTICS

UPLOAD CUSTOM THUMBNAIL

Audience

Is this video made for kids? (required)

Regardless of your location, you're legally required to comply with the Children's Online Privacy Protection Act (COPPA) and/or other laws. You're required to tell us whether your videos are made for kids. [What's content made for kids?](#)

Yes, it's made for kids

No, it's not made for kids

Age restriction (advanced)

CREATE STREAM

Enter the streaming details, schedule date if necessary and click on "Create Stream".

Stream Key to be provided in OBS



STREAM SETTINGS **ANALYTICS** **STREAM HEALTH**

Stream key
Select stream key
Auto-generated key

Stream key (paste in encoder)
.....

Stream URL
rtmp://a.rtmp.youtube.com/live2

Backup server URL
rtmp://b.rtmp.youtube.com/live2?backup

Additional settings
Enable Auto-start
Enable Auto-stop
Enable DVR
360° video
Added delay
None

COPY

COPY

COPY

Copy Stream key from youtube and paste it in OBS Stream

General

Stream

Output

Service: YouTube / YouTube Gaming

Server: Primary YouTube ingest server

Stream Key:

Show GetStream Key



- Download and install OBS studio
- Add two commonly used sources: Display Capture and Video Capture Device
- Adjust the positions of the above two sources
- Click on "Start Recording". Now whatever you do on computer, it will be recorded: explaining your ppt, showing other documents, etc.
- While recording, you can't see your face screen, but it will be visible after saving the video as per the positions of the sources adjusted.
- Best wishes for your first OBS recording and Live Streaming.

