MULTIMEDIA SYSTEMS PROJECT REPORT

PROJECT TITLE: *ASSIGNING AUDIO AND SUBTITLES TO A VIDEO FILE*

GROUP DETAILS:

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PROJECT DESCRIPTION:

LIBRARIES AND SOFTWARES USED-

- moviepy
- imagemagick

INPUTS-

1. A video file with .mp4 extension which has no audio and subtitles.
2. An audio file with .mp3 extension.
3. A text file containing the subtitles with .srt extension.

MULTIMEDIA TASK-

- The base video is imported.
- A subclip of the video is selected.
- The audio clip is imported.

- A subclip of the audio is selected.
- Audio subclip is assigned over the video subclip.
- The output video with audio assigned over it, is saved and imported for the next step.
- The text file is imported.
- And, it is added to the video.
- The final output video contains audio and subtitles assigned to it.

CODE:

#Assigning audio subclip over the video subclip:

```python
# Importing everything from the library
from moviepy.editor import *

# loading the base video
clip = VideoFileClip("video.mp4")

# choosing a specific subclip
clip = clip.subclip(7, 52)

# loading audio file
audioclip = AudioFileClip("audio.mp3").subclip(0, 52)

# assigning audio to the video clip
videoclip = clip.set_audio(audioclip)

# displaying the video output
videoclip.ipython_display()
```

#Assigning audio subclip over the video subclip:

```python
# Importing required libraries
from moviepy.editor import *
from moviepy.video.tools.subtitles import SubtitlesClip
# Setting font size, style and colour
generator = lambda txt: TextClip(txt, font='Arial', fontsize=28, color='white')
```
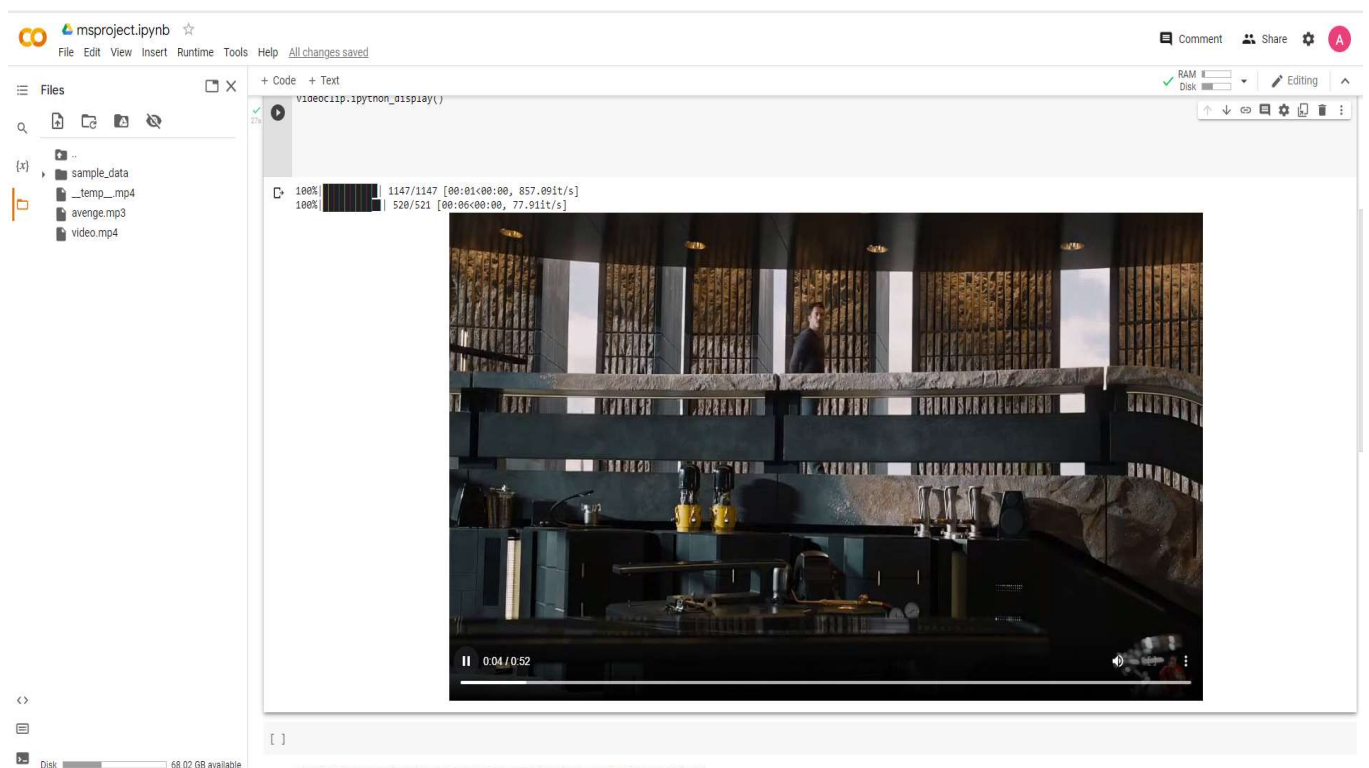
```python
# loading subtitles file
subtitles = SubtitlesClip("avengerst.srt", generator)
# loading video file
video = VideoFileClip("videout.mp4")
# adding the subtitles over video and setting position for text
result = CompositeVideoClip([video, subtitles.set_pos(('center','bottom'))])
# Writing the final output video and saving it
result.write_videofile("output.mp4", fps=video.fps, temp_audiofile="temp-audio.m4a",
remove_temp=True, codec="libx264", audio_codec="aac")
```

SCREENSHOTS:

Audio assigned over video:

Subtitles added to the video: