Centurion University
Shaping Lives... Empowering Communities...

School: ..... Campus: .....

Academic Year: ..... Subject Name: ..... Subject Code: .....

Semester: ..... Program: ..... Branch: ..... Specialization: .....

Date: .....

Applied and Action Learning

(Learning by Doing and Discovery)

Name of the Experiement :

* Coding Phase: Pseudo Code / Flow Chart / Algorithm

1. Video Compression using python

✱As applicable according to the experiment.
Two sheets per experiment (10-20) to be used.

* Implementation Phase: Final Output (no error)

```
from moviepy.editor import *

video = VideoFileClip("sample-5.mp4")

width_of_video1 = video.w

height_of_video1 = video.h

print("Width and Height of original video : ", end = " ")

print(str(width_of_video1) + " x ", str(height_of_video1))

print("------------------------------")

video_resized = video.resize(0.7)

width_of_video2 = video_resized.w

height_of_video2 = video_resized.h

print("Width and Height of resized video : ", end = " ")

print(str(width_of_video2) + " x ", str(width_of_video2))

print("----------------------------------------")

video_resized.ipython_display()
```

OUTPUT :

```
Width and Height of original video :  640 x  360
------------------------------
Width and Height of resized video :  448 x  448
----------------------------------------
Moviepy - Building video __temp__.mp4.
Moviepy - Writing video __temp__.mp4


Moviepy - Done !
Moviepy - video ready __temp__.mp4
```


✱As applicable according to the experiment.
Two sheets per experiment (10-20) to be used.

Through experimentation with video compression using Python, I gained valuable insights into the intricacies of multimedia processing. Python's extensive libraries, such as OpenCV, provided a robust framework for manipulating video files, enabling me to explore various compression techniques. By adjusting parameters like bitrate and resolution, I learned to strike a balance between reducing file size and maintaining acceptable video quality. Additionally, Python's automation capabilities allowed me to streamline the compression process, making it suitable for batch processing and integration into larger workflows. Overall, this experience enhanced my understanding of video compression algorithms and equipped me with practical skills to develop efficient solutions for handling video content in diverse applications.

ASSESSMENT

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/ Practical Simulation/ Programming	10		
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	**50**		

Signature of the Student:

Name :

Regn. No. :

Signature of the Faculty