**VIDEO 1:**

**CODE:**

import cv2

def get\_video\_info(file\_path):

try:

# Open video file

cap = cv2.VideoCapture(file\_path)

# Get video information

fps = cap.get(cv2.CAP\_PROP\_FPS)

frame\_count = int(cap.get(cv2.CAP\_PROP\_FRAME\_COUNT))

codec = int(cap.get(cv2.CAP\_PROP\_FOURCC))

# Calculate bitrate if possible

bitrate = None

if fps > 0:

bitrate = (frame\_count / fps) \* 8

# Convert codec to four-character code

codec\_fourcc = "".join([chr((codec >> 8 \* i) & 0xFF) for i in range(4)])

# Print the information

print(f"Codec: {codec\_fourcc}")

print(f"FPS: {fps}")

print(f"Frame Count: {frame\_count}")

print(f"Bitrate: {bitrate} bps (approx)")

# Release video capture object

cap.release()

except Exception as e:

print(f"Error: {e}")

# Example usage

video\_file\_path = r"C:\Internship\PycharmProjects\ocr\Video1.mp4"

get\_video\_info(video\_file\_path)

**OUTPUT:**

Codec: h264

FPS: 29.97002997002997

Frame Count: 180

Bitrate: 48.048 bps (approx)

**VIDEO 2:**

**CODE:**

import cv2

def get\_video\_info(file\_path):

try:

# Open video file

cap = cv2.VideoCapture(file\_path)

# Get video information

fps = cap.get(cv2.CAP\_PROP\_FPS)

frame\_count = int(cap.get(cv2.CAP\_PROP\_FRAME\_COUNT))

codec = int(cap.get(cv2.CAP\_PROP\_FOURCC))

# Calculate bitrate if possible

bitrate = None

if fps > 0:

bitrate = (frame\_count / fps) \* 8

# Convert codec to four-character code

codec\_fourcc = "".join([chr((codec >> 8 \* i) & 0xFF) for i in range(4)])

# Print the information

print(f"Codec: {codec\_fourcc}")

print(f"FPS: {fps}")

print(f"Frame Count: {frame\_count}")

print(f"Bitrate: {bitrate} bps (approx)")

# Release video capture object

cap.release()

except Exception as e:

print(f"Error: {e}")

# Example usage

video\_file\_path = r"C:\Internship\PycharmProjects\ocr\Video2.mp4"

get\_video\_info(video\_file\_path)

**OUTPUT:**

Codec: h264

FPS: 30.0

Frame Count: 180

Bitrate: 48.0 bps (approx)

**VIDEO 2:**

**CODE:**

import cv2

def get\_video\_info(file\_path):

try:

# Open video file

cap = cv2.VideoCapture(file\_path)

# Get video information

fps = cap.get(cv2.CAP\_PROP\_FPS)

frame\_count = int(cap.get(cv2.CAP\_PROP\_FRAME\_COUNT))

codec = int(cap.get(cv2.CAP\_PROP\_FOURCC))

# Calculate bitrate if possible

bitrate = None

if fps > 0:

bitrate = (frame\_count / fps) \* 8

# Convert codec to four-character code

codec\_fourcc = "".join([chr((codec >> 8 \* i) & 0xFF) for i in range(4)])

# Print the information

print(f"Codec: {codec\_fourcc}")

print(f"FPS: {fps}")

print(f"Frame Count: {frame\_count}")

print(f"Bitrate: {bitrate} bps (approx)")

# Release video capture object

cap.release()

except Exception as e:

print(f"Error: {e}")

# Example usage

video\_file\_path = r"C:\Internship\PycharmProjects\ocr\Video3.mp4"

get\_video\_info(video\_file\_path)

**OUTPUT:**

Codec: h264

FPS: 29.958391123439668

Frame Count: 180

Bitrate: 48.06666666666666 bps (approx)