

PYTHON

Assignment

- 1. Write a Python program to open an image file (e.g., .jpg or .png), copy its content, and save it as a new image file with a different name.
- 2. Write a Python program to load an image, convert it to grayscale, and save the result.
- 3. Use a Python library (like pygame or pydub) to load an audio file (e.g., .mp3 or .wav) and play it.
- 4. Write a Python program to merge two audio files into one (use the pydub library).
- 5. Write a Python program to extract audio from a video file (e.g., .mp4) and save it as an audio file using the moviepy library.
- 6. Write a Python program that compresses a video file (e.g., .mp4) using the moviepy or opency library.
- 7. Write a Python program to compress multiple files into a zip archive.
- 8. Write a Python program to unzip a given archive and extract all files.
- 9. Create a Python program that serializes a Python object (such as a dictionary) into a file using the pickle module and later descrializes it (unpickles) to retrieve the original object.
- 10. Create a Python program to store a list of dictionaries in a pickled file, and then retrieve it.
- 11. Write a Python program that takes a list of dictionaries containing student data (e.g., name, age, grade) and saves it to a CSV file.



- 12. Write a Python program to read data from a CSV file and print each row.
- 13. Write a Python program to append new records (e.g., employee data) to an existing CSV file.
- 14. Write a Python program to read a CSV file and convert its rows into a list of dictionaries where each key is a column header.
- 15. Write a Python program to create a zip file that contains multiple CSV files, then extract the CSV files from the zip file and read their contents.

