Class 12 Computer Science Project

# Project Title: E-Ticket Booking System (Text-Based)

## Index

1. About the Project  
2. Aim  
3. Objectives  
4. Tools Used  
5. Algorithm  
6. Sample Output  
7. Conclusion

## 1. About the Project

This project simulates a basic e-ticket booking system using text file handling in Python. It allows users to book, cancel, and view tickets for events such as concerts or movies. Each booking updates the file to reflect the ticket’s availability and generates a mini receipt. This project reinforces the use of file operations, record management, and menu-driven logic in a real-world scenario.

## 2. Aim

To build a simple ticket booking and cancellation system using text file handling in Python.

## 3. Objectives

- To apply basic file operations (read, write, append)  
- To simulate real-world booking and cancellation logic  
- To manage status updates in text-based records  
- To create a receipt for every booking  
- To practice modular programming with menu-based interaction

## 4. Tools Used

• Python 3  
• Text File Handling  
• String and List operations

## 5. Algorithm

Step 1: Load all ticket data from a text file  
Step 2: Display a menu with options for booking, cancelling, or viewing tickets  
Step 3: For booking, find the first available ticket, update name and status, and save  
Step 4: For cancellation, reset ticket name and status to Available  
Step 5: Save all updates back to the text file  
Step 6: Repeat until user chooses to exit

## 6. Sample Output (Text Format)

--- E-Ticket Booking System ---  
1. Show Available Tickets  
2. Book a Ticket  
3. Cancel Booking  
4. View All Bookings  
5. Exit  
  
Ticket T001 booked successfully for Riya Sharma!  
Ticket\_T001.txt file generated as receipt.

## 7. Conclusion

This project provides a functional example of file-based record keeping, simulating a useful real-life system. It demonstrates how text files can be used to manage bookings and inventory while helping students understand Python file handling techniques.