Python Project: "Student Management System"

This project will help you practice all Python basics: variables, data types, operators (including bitwise), loops, functions, file handling, and exception handling.

📌 Project Statement:

Design a Student Management System that allows users to:

Add students with details (name, age, roll number, marks).

View student records stored in a file.

Search for a student by roll number.

Update student marks.

Delete student records.

Use bitwise operations for special functionalities (e.g., checking even/odd roll numbers).

📌 Features & Python Concepts Covered

Feature Python Concepts Used

Menu-driven program Loops, Functions

Store & retrieve student data Lists, Dictionaries, File Handling

Validate input Conditionals, Exception Handling

Update and Delete Records File Operations

Use bitwise operations Bitwise AND, OR, XOR