Problem Statement:

Design a Java application that allows users to input and manage student information. The application should provide a graphical user interface (GUI) built using the AWT (Abstract Window Toolkit) library. Additionally, the application should support the generation of PDF documents containing the entered student information.

Features to Implement:

1. *Input Interface:*

- The application should display a window with labeled text fields for entering student information, including the student's name, roll number, and course.
 - Users should be able to enter student details into the respective text fields.

2. *Save Student Information:*

- Implement a "Save" button that, when clicked, saves the entered student information (name, roll number, course) to a text file named "student" info.txt".
- The student information should be appended to the file, with each entry separated by a blank line for readability.

3. *Generate PDF:*

- -Integrate a "Generate PDF" button that, upon clicking, generates a PDF document containing the student information entered. The PDF file should be named "student_info.pdf".
- Read the student information from the text file and add it to the PDF document.
- The PDF document should display the student's name, roll number, and course.
- -Use the 'itextpdf' library to create the PDF document.

4. *User Interface:*

- Design a user-friendly GUI using AWT components for easy interaction with the application.
 - Ensure appropriate labeling and organization of input fields and buttons.
- Implement proper error handling to provide informative messages to users if input is missing or invalid.

5. *Additional Considerations:*

- Implement a "Clear" button to reset the input fields after saving or generating a PDF.
- Include an option to close the application window gracefully.

Deliverables:

- Java source code implementing the Student Information Management System with AWT-based GUI and PDF generation capabilities.
- A "student info.txt" file containing the saved student information in text format.
- A "student_info.pdf" file containing the generated PDF document with student information.