**1. Library Fine System**

* **Scenario:** A library imposes a fine for overdue books:
  + If a book is overdue:
    - If it is late by 1-5 days, fine is 50rs per day.
    - If late by 6-10 days, fine is 100rs per day.
    - If more than 10 days, a flat fine of 500rs is imposed.
  + If the book is returned on time, no fine is applied.
* **Question:** Write a program to calculate the fine based on the number of overdue days.

**2. School Grading System**

* **Scenario:** A school assigns grades based on marks:
  + If the student scored above 90:
    - Check if they participated in extra-curricular activities.
      * If yes, assign "Grade A+."
      * If no, assign "Grade A."
  + If the score is between 60 and 90:
    - Assign "Grade B."
  + If the score is below 60:
    - Assign "Grade C."

**3. Bank Loan Eligibility:**

* **Scenario**: Write a program to assign grades based on the above rules.
  + - Bank Loan Eligibility:
* Write a program to determine if a person is eligible for a loan:
* If the person’s age is between 18 and 60:
* Check their monthly income:
* If above ₹30,000, they are eligible.
* If below ₹30,000, check if they have a co-signer:
* If yes, they are eligible.
* If no, they are not eligible.
* If the age is not between 18 and 60, they are not eligible.