Lab Assignment 5

Note:

1. To implement calculator (+,-/,*,%) using switch statement
2. Display month name according to the month number using Switch Statement
3. To check a no. say 'n' divisible by 5 and/or 8. Print the appropriate message accordingly.
4. A library charges a fine for every book return late. For first 5 days the fine is 50 paisa, for 6-10 days fine is one rupee and above 10 days fine is 5 rupees. If you return the book after 30 days your membership will be cancelled. WAP to accept no. of days the member is late to return the book and display the fine or appropriate message.
5. A certain grade of steel is graded according to the following conditions:
   (i)   Hardness must be greater than 50
   (ii)   Carbon content must be less than 0.7
   (iii)   Tensile strength must be greater than 5600

   The grades are as follows:
   Grade is 10 if all three conditions are met
   Grade is 9 if all conditions (i) and (ii) are met
   Grade is 8 if all conditions (ii) and (iii) are met
   Grade is 7 if all conditions (i) and (iii) are met
   Grade is 6 if only one condition is met
   Grade is 5 if none of the conditions are met

   Write a program, which will require the user to give values of hardness, carbon content and tensile strength of the steel under consideration and output the grade of the steel. (Solve using nested if-else, ladder if and else if)