UCSC

Assignment - 02
ENH 1202 - Application Laboratory

Instructions

- **Do the following questions using LibreOffice Calc.**
- **Write the answers to the question and take the necessary screenshots for proof.**
- **Create a PDF file that includes screenshots and answers.**
- **Rename the file using your temporary index number (Eg. 230011.pdf) and upload it in the given link.**

Task 1: Student Score Summary

You are required to create a student score summary using LibreOffice Calc.

Student Name	Maths	English	Science	History	Computer
Student A	78	85	90	88	84
Student B	65	70	68	72	75
Student C	90	88	92	89	94
Student D	55	60	58	62	54
Student E	80	78	85	82	65

A. Calculate the Total Score for each student by adding a column named "Total" using the SUM() function to total the scores across all subjects.
B. Find the Highest Subject Score for each student by adding a column named "Top Subject Score" using the MAX() function.
C. Determine if the Student Passed, using a column named "Pass/Fail". Use the IF() function:
    a. Pass if total score ≥ 350
    b. Fail otherwise

Task 2: Loan EMI Calculator

A. Design a Loan EMI Calculator by first creating input fields at the top of your sheet for Principal (P), Annual Interest Rate (R) (as a percentage), and Loan Tenure (N) (in years).
   Principal(P): This is the total loan amount you are borrowing from the lender.
   Annual Interest Rate(R): This is the yearly interest rate charged by the lender on the loan amount. Ex: 7.5%
   Loan Tenure (N): This refers to the duration of the loan in years. Ex: 5 years

B. Calculate the Monthly Interest Rate using the given formula and store this in a separate cell using appropriate cell references.
   = Annual Rate / 12 / 100

C. Calculate the Number of Payments by multiplying the loan tenure (in years) by 12 to get the total number of monthly installments.

D. Calculate the EMI (Equated Monthly Installment) using the formula:
   = P * R * (1 + R)^N / ((1 + R)^N - 1)
   Ensure that P represents the principal amount, R represents the monthly interest rate, and N represents the total number of payments, using proper cell references.

E. Calculate the Total Payment using =EMI × Total Months, and finally compute the Total Interest using =Total Payment - Principal.