Introduction to Programming – IT110 – Lab Manual

Instructions:
1. Maintain a journal for this course.
2. Attempt all questions, and get yourself evaluated for them through a TA.

Lab 4

Write a C program to for the following problems

Problem 1: Calculator
User will provide you two numbers, you need to display/print their sum (+), product (*), quotient (/) and remainder (%)

Problem 2: Gross Salary Problem
You need to calculate Gross Salary of an employee based on the following criteria

1. If Basic Salary is less than 5000 then Dearness Allowance (DA) is 40% of Basic and House Rent Allowance (HRA) is 20% of Basic
2. If Basic Salary is between 5001 to 10000 then Dearness Allowance (DA) is 35% of Basic and House Rent Allowance (HRA) is 17% of Basic
3. If Basic Salary greater than 10,001 then Dearness Allowance (DA) is 30% of Basic and House Rent Allowance (HRA) is 15% of Basic

Problem 3: Conversion Problems
User will provide two inputs:

- First input is, whether the user will enter temperature in Fahrenheit or Celsius. E.g. 1 – Temperature in Fahrenheit and 2 - Temperature in Celsius.
- Second input is; the actual temperature value

You need to covert temperature value (i.e. 2nd input) from F to C or C to F depending on the first input
Problem 4: Largest value
User will enter 3 numbers, you need to print the largest of 3
  e.g. user entered 3 values as 100, 5, -34 → print 100
  user entered 3 values as 120, 50, 120 → print 120