**Lab 4 Pre-Lab**

**The following exercises must be completed before you come to lab. Your instructor will check your pre-lab exercises at the beginning of the lab period. Completion of the pre-lab is worth 10 points of the total 50 points for the lab.**

Write the pseudocode for the following problem:

A program is needed that will ask the user for number of seconds. The program will then calculate and display the number of hours, minutes, and seconds that corresponds to the number of seconds entered by the user. For example, if a user enters 50391 seconds, the output should be: (Value in bold is user input.)

Enter number of seconds: **50391**

Hours: 13

Minutes: 59

Seconds 51

You are given one set of test data. Create 3 more sets and calculate the expected results:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Expected Results** | | |
|  | **Number of Seconds** | **Hours** | **Minutes** | **Seconds** |
| 1 | 50391 | 13 | 59 | 51 |
| 2 | 36660 | 10 | 11 | 00 |
| 3 | 99999 | 27 | 46 | 39 |
| 4 | 222123 | 61 | 42 | 3 |

Pseudo code

* User inputs the total number of seconds to compute the hours, minutes and seconds.
* Secondly, to compute the hours the User divides the number of seconds with a constant value of 3600. As, we know there are 3600 seconds in an hour.
* Thirdly we deduct the number of seconds remaining from the product of hours and the constant value of 3600.
* Then, in order to compute minutes, the resultant value is divided by the constant value of 60 as we know that there are 60 seconds in a minute.
* Lastly, to compute the seconds remaining the resultant value is deducted from the product of minutes and the constant value.
* Repeat the process to get all your expected results.