

LAB 5: Looping - Part 2

For each problem below:

- a) Analyze the problem by identifying input, output, formula, and constraint
- b) Design an algorithm to solve the problem using <u>pseudocode</u> (so that you could include the pseudocode in your program)
- c) Prepare several, appropriate number of <u>test data</u> to verify the correctness of your program
- d) Prepare, compile, link, and execute the program to solve the problem
- e) Test your program using the prepared test data
- f) Write proper documentation in the program. Include the following information to form a <u>banner</u> at the beginning of your program:

OUESTIONS

- 1. Re-write the program written for Lab4-2 Question 6 using do..while loop.
- 2. Re-write the program written for Lab4-2 Question 7 using for loop.
- 3. Re-write the program written for Lab4-2 Question 8 using for loop.
- 4. Re-write the program written for Lab4-2 Question 9 using do..while loop.
- 5. Improve the program written for Lab4-2 Question 2 so that it repeatedly asks for an integer number and display the day message as long as the user does not enter value -999. A sample input and output of the program is as follows:

```
Enter any number between 1 to 7 [or -999 to exit]: 7

Day 7 is Sunday

Enter any number between 1 to 7 [or -999 to exit]: -999

[end-of-program]
```

6. Improve the program written for Lab4-2 Question 4 so that the program exits only after the user chooses not to continue with it. Format the program's input/output in the following manner:

-BS-May 2012 1



-BS-May 2012 2