Assignment 8 worksheet

FINAL PROGRAMMING PROJECT – Pseudocode

This ASSIGNMENT contains the following activitY:

|  |  |
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| Activity 8.1 | Submit the Pseudocode of your selected programming project |
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| Activity 8.1 | Submit the Pseudocode of your selected programming project |
| Overview | In Activity 8.1 you submit the Pseudocode of your selected programming project. You should deliver to your instructor the Pseudocode of your final programming project connecting the multiple topics we have/still learned/learning. |

You should deliver to your instructor the Pseudocode of your final programming project connecting the multiple topics, we have/are learned/learning, such as:

* Textbook Chapters 3-8, 10-12 & 14, including: Decision Structures; Loops and Files; Methods; A First Look At Classes; Arrays and the ArrayList Class; A Second Look at Classes and Objects; Inheritance; Exceptions and Advanced File I/O; A First Look at GUI Applications; Applets and More.
* Textbook theory and Programming Challenges
* Review source code solutions in BlackBoard (Learning Modules)
* MPL Programming Projects: Chapters 3-8, 10-12 & 14.

This Pseudocode (Part 3/4) will serve as the foundation of your Final Programming Project Source Code file(s). See your syllabus (Final Project - 4 parts) or the schedule below for details:

|  |  |  |
| --- | --- | --- |
| **Week** | **Assignment This Week** | **Due Date** |
| 11 | *Final Project – Part* ***1*** */ 4 (Choose 1 and begin)* | *10/29* |
| 13 | *Final Project – Part* ***2*** */ 4 (Submit Progress Report)* | *11/12* |
| **15** | ***Final Project – Part 3 / 4 (Submit Pseudocode)*** | ***12/3*** |
| 16 | *Final Project – Part* ***4*** */ 4 (Submit Source Code Files)* | *12/10* |

The Requirements for your final project - preliminary code are:

1. Using a table or list, write the names of your preliminary source code files and methods.
2. In the same table or list, write a brief description of the code files and methods used to divide and conquer problem(s).
3. Write a short and simple "pseudocode" and include this as an Appendix 1.

**Table of Contents**

Table 1. List of Preliminary Source Code Files and Methods 4

Appendix 1 5

**< SUBMIT YOUR TABLE or LIST and “PSEUDOCODE” BELOW >**

Table 1. List of Preliminary Source Code Files and Methods

|  |  |  |
| --- | --- | --- |
| Name | **Type** | **Description** |
| Program Name | Magic.Java | Magic Square Identifier |
| Library(ies) | import java.util.\*; | Will let us use certain classes |
| Main Class | class MagicSquare{ | Class will be Magic Square – because I am doing a magic square. |
| * Method (1) | checkSimilarity | Checks how often a number appears |
| * Method (2) | checkSums | Checks the sums of each row, column, and diagonal. |
| * ……… |  |  |
| * Method (N) |  |  |
| Other |  |  |
|  |  |  |

**Note:** See Appendix 1 for Pseudocode details.

Appendix 1

**<< Paste Your “Final Project - Pseudocode” Below >>**

The program will begin asking the user to input their numbers. They can separate them by pressing tab, enter, or space. The program will then do two methods. First it will check the sums of each row, column, and diagonal. The after it checks the sums, it will check the similarity of the sums. If all the sums are exactly equal, it will say it’s a magic square. If all one is missing, then it will display that it is not a magic square.

**Note:**

*Once you have filled in the required information, save the file to your flash drive / hard disk. Then, you can submit it to your instructor through your Blackboard Course for review and grading.*