# DAY 1: CODING CONVENTION & WRITING CLEAN CODE

**Part I – Write Java program**

Scenario: Write console based “Who is millionaire” game show. When the game starts, questions are loaded from a text file to a question bank and each turn, a question is chosen randomly from the bank (repetition is not allowed). Each question has 4 possible answers and 1 correct answer. If player answers a correct question, his score increases by

1. Game is over when player loses (any wrong answer) or wins (answer 10 correct answers). Show message (win or lose) then quit the game. A typical game show is as follow:

Welcome to the game Who is millionaire! I'm Lai Van Sam host of the show.

What is your name: Tung

Welcome player Tung! Let's the game begin! What is Nobita mother's name in Doraemon ?

1. Shizuka
2. Minamoto Yoshio
3. Honekawa Sunetsugu
4. Nobi Tamako Your answer: 4 Correct answer!

What is the real name of Spider-man ?

1. Bruce Wayne

1. Peter Parker
2. Michael Jackson
3. Bruce Lee

Your answer: 4

Wrong answer! You lose!

High priority:

* + Coding convention (including javadocs comments)
  + Clean code rules
  + Object-oriented programming paradigm (classes, relationships) Low priority:
  + Program runs
  + Program runs without (as less as possible) errors

# Part II – Peer review

Make a check list for coding convention and clean code rules, then give score for the peer group.

|  |  |  |  |
| --- | --- | --- | --- |
| **N0** | **Rules** | **Peer review** | **Notes** |
| 1 | Type’s name must be in mixed case, starting with upper case | 5 |  |
| 2 | Variable’s name must be in mixed case, starting with lower  case | 3 | countnumber |
| 3 | Complex conditional expressions should be avoided. | N/A |  |
| 4 | Đóng mở ngoặc chưa đúng quy tắc | … | … |
| 5 | Không chia nhỏ chương trình |  |  |
| 6 | Không có javadocs comments |  |  |
| 7 | Chương trình chưa chạy ngẫu nhiên |  |  |
|  | Total | 50 |  |

Where:

* + 5: all are followed
  + 0: none is followed
  + N/A: not available in this code

Also mention members of your group and members of peer group.

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