1 Introduction

Software used to teach programming may be labelled as educational, but does not necessarily address the educational requirements of the target audience. It may also not be educational at all. For this assignment you are required to select a learning tool which has been identified, either by the vendor or by consensus, as educational in terms of teaching programming and critically evaluate the software according to particular criteria.

The assignment will be presented in terms of individual parts, each with their own due date.

2 Instruction

Part a - Choose a learning tool for teaching programming

Select a learning tool used to teach programming that you wish to evaluate. Make sure that you have access to the application as you need to be able to run the application multiple times during the assignment.

Date issued: 10 September 2015

Deliverable: Write a short synopsis of the learning tool. Your synopsis needs to address the following: the name and vendor of the learning tool; whether the software is open source or proprietary; the target audience according to the vendor; and which learning theories and styles are applied.

Due date: Upload your synopsis on 17 September 2015 before 21:00 to the module website. Update, 15 September: Assignment Part a due date has been extended to 21 September 2015 at 21:00.
Part b - Gamification and Intrinsic motivation

The aim is to assess how *intrinsically motivating* the learning tool you chose in Part a is. Assess the learning tool in terms of Malone and Lepper’s four individual intrinsic motivations for learning, namely, challenge, curiosity, control and fantasy.

Explain how you will apply gamification to your learning tool for teaching programming in order to increase the potential intrinsic motivation of the tool.

**Date issued:** 10 September 2015

**Deliverable:** A report of no more than 2 pages with the analysis of your learning tool in terms of Malone and Lepper and the suggestion to enhance the application by applying gamification.

**Due date:** Upload your report on 1 October 2015 before 21:00 to the module website.

3 Assessment

Assessment of this assignment will be on the reports that will be submitted as per the individual due dates per part.