# **Asessing Coding and CT UON Computer Science 4 Schools**

# **Introduction to Coding and Computational Thinking**

**Presented by Daniel Hickmott** 



### **Presentation Contents**

# - Bebras

- Project Quantum
- Dr Scratch
- Debug Its
- Parsons' Problems

### **Bebras**

- Challenge with Computational Thinking questions
- Run twice annually in Australia
- For Year 3 to Year 12
- <u>Bebras 365</u>
- Solution Guides

# **Project Quantum**

- A large question bank
  - Not just Coding and Computational Thinking
  - general Digital Literacy as well
- Involves registering a <u>Diagnostics Questions</u> account
- <u>Computing at School</u> is one of the main contributors

### **Dr Scratch**

- Online tool for automatic assessment of Scratch programs
- Analyses a Scratch program and gives mark out of 21
- Not ideal for measuring students' understanding
- Tool to support reflection and self-evaluation

## **Debug Its**

- Created for the Creative Computing Curriculum Guide
- Scratch programs which have some problem
- Students try and find the cause of the problem and fix it (debugging)
- There are Studios of Debug It problems from CC:
  - Unit 2 (Animations)
  - Unit 3 (Stories)

### **Parsons' Problems**

- <u>Mixed up</u> snippets of Code
- Low cognitive load don't have to recall syntax
- Students can focus on Computational Thinking
- Mostly used for Text languages
- Could be used for Blocks languages as well
  - <u>Example in Scratch</u>