

Pass Task 18

Robust Rover

Related Learning Outcomes

ULO1 – Explain the OO Principles

ULO2 – Use OO Language and Library

The task demonstrates the use of C++ object-oriented programming language, as well as introduces the difference on between C# and C++ programming on the matter of memory management.

ULO3 – Design, Develop and Test using an IDE

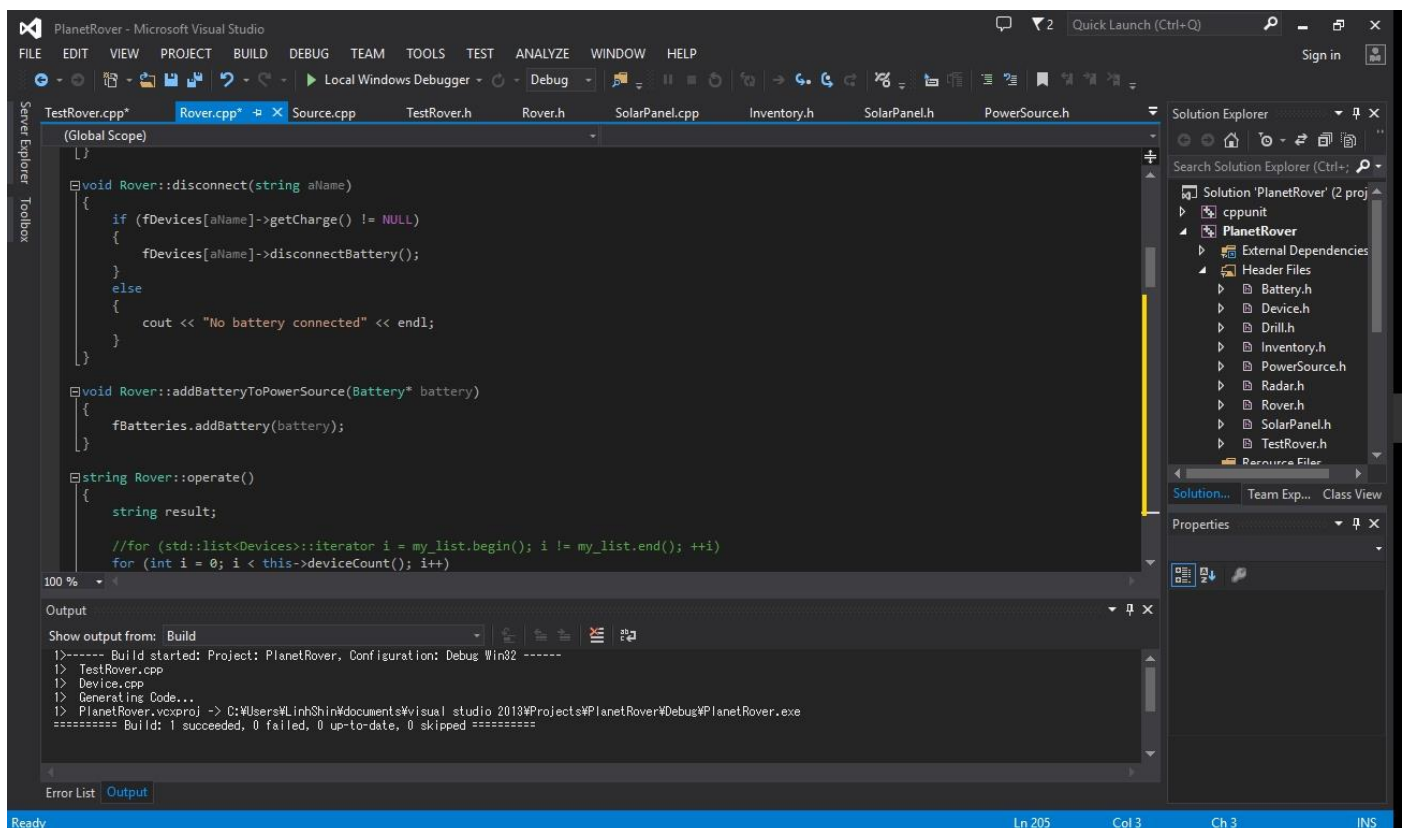
The task demonstrates how to create and run Unit Tests for C++ programs.

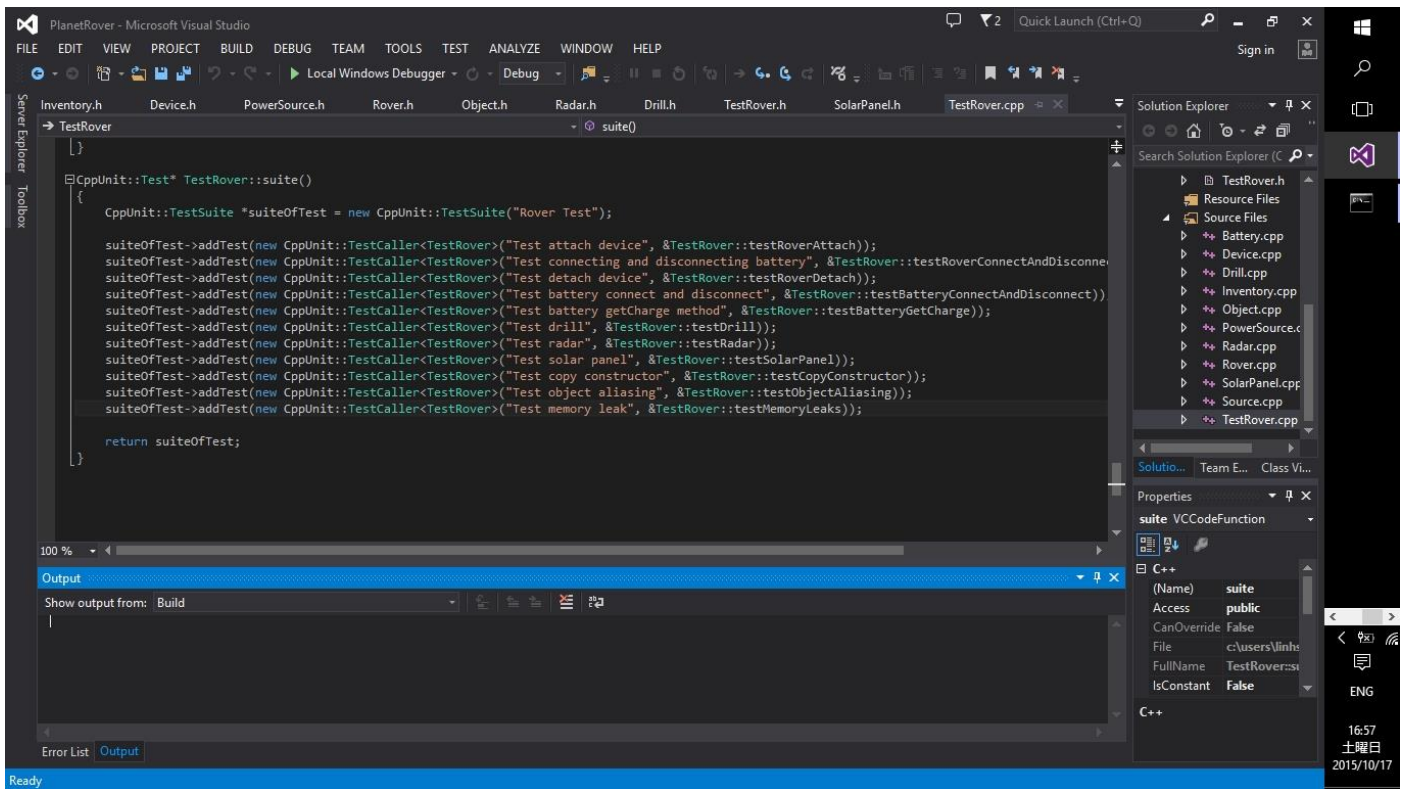
ULO4 – Communicate using UML Diagrams

ULO5 – Describe Elements of Good OO Design

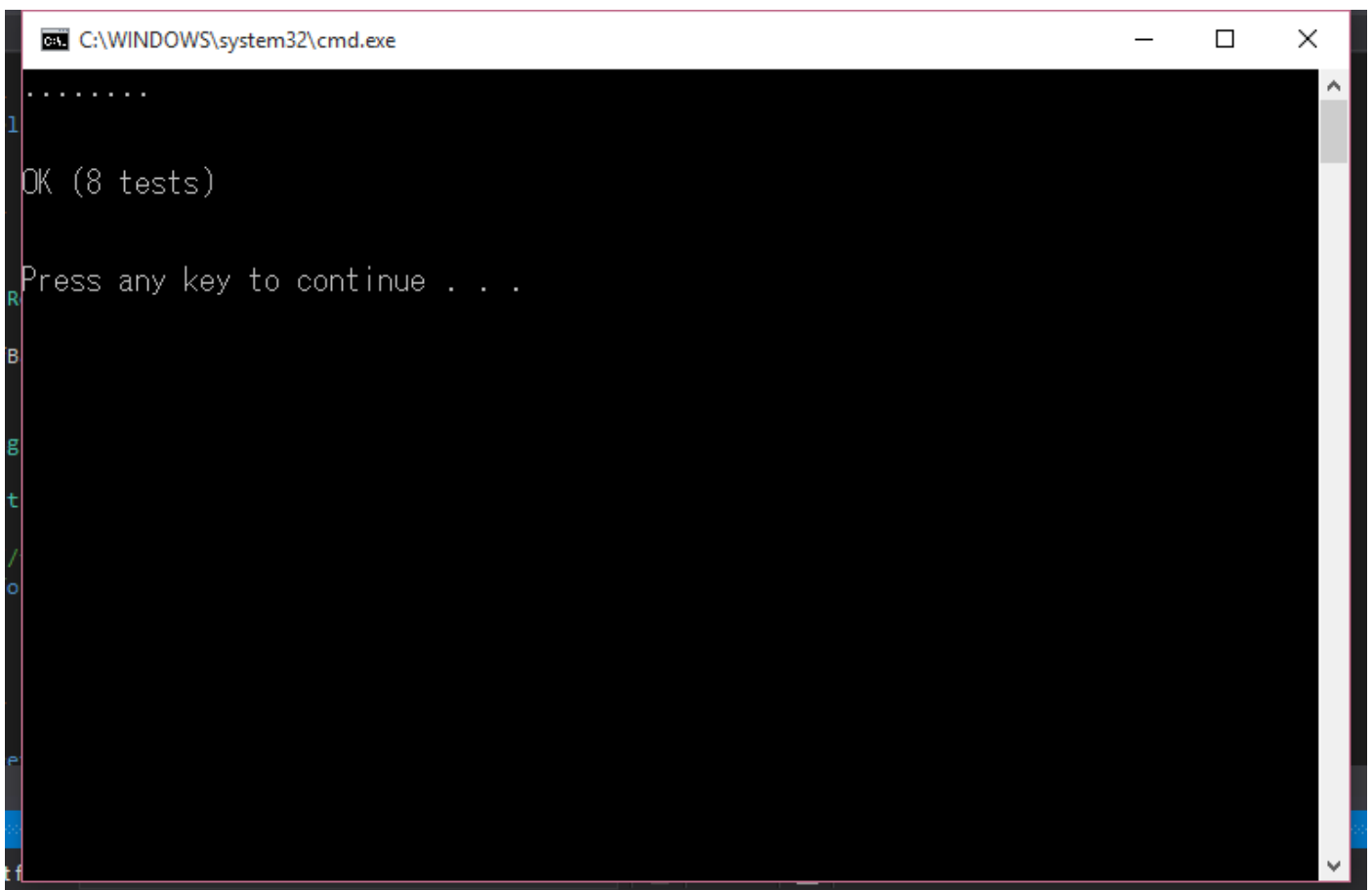
The task demonstrates the problem of memory management in C++ programming, as well as methods to handle it

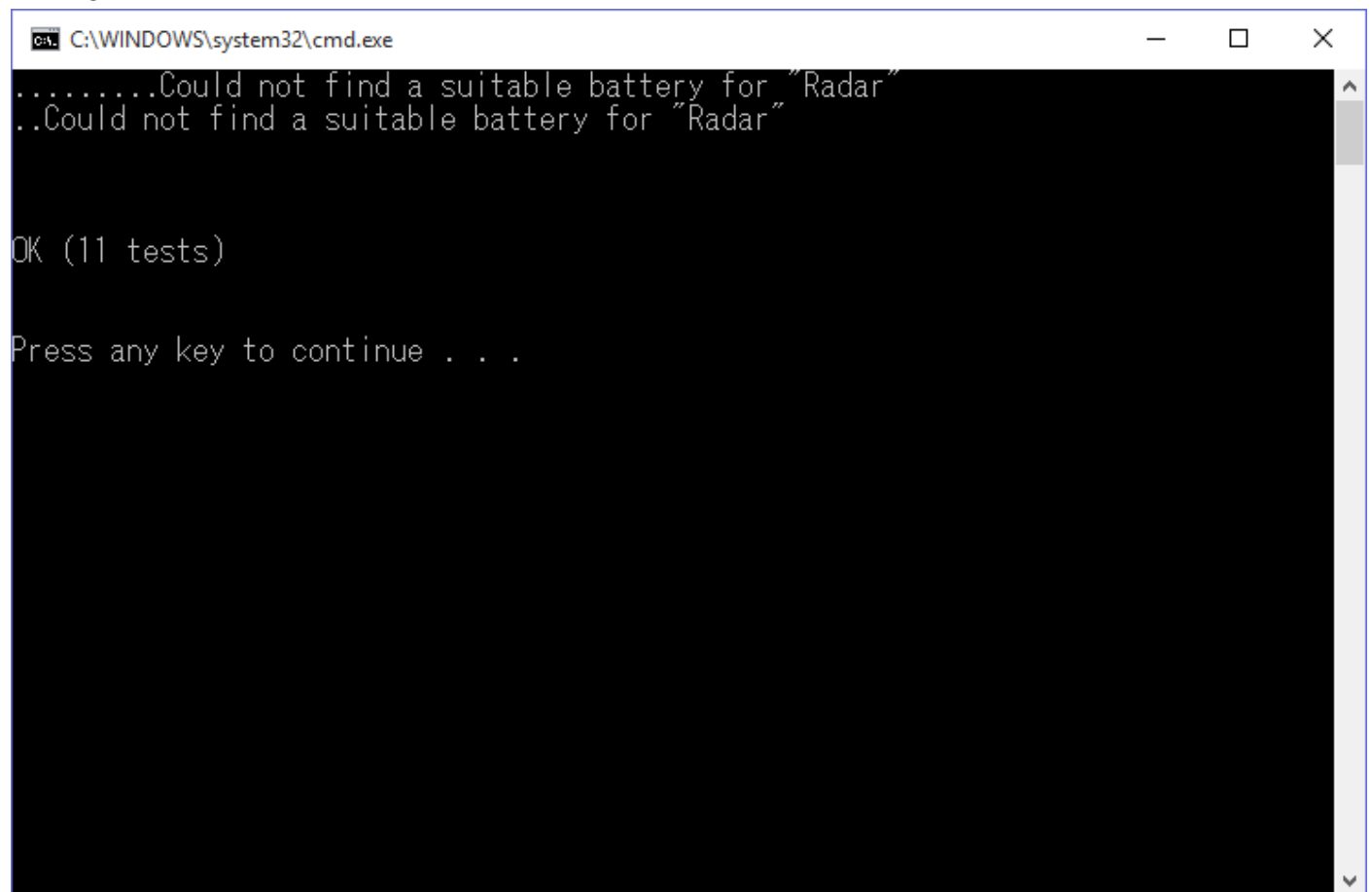
IDE screenshots:





CPPUNIT testing:





A screenshot of a Windows command prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.exe'. The window contains the following text: two lines of error messages, a summary line, and a prompt to press a key.

```
.....Could not find a suitable battery for "Radar"  
..Could not find a suitable battery for "Radar"  
  
OK (11 tests)  
  
Press any key to continue . . .
```