**CAB201 Programming Principles**

**First Assignment Criteria Reference Assessment**

|  |  |  |
| --- | --- | --- |
| **Program** | **Maximum Grade Possible** | **Maximum Mark Possible** |
| contains compilation errors | 1 | 2 |
| implemented as straight line code | 4 | 5 |
| program cannot handle invalid format of numeric input | 4 | 6 |
| has only void methods  or  program accepts out of range numeric input | 5 | 7 |
| performs only 1 calculation | 6 | 8 |
| has   * A class comment1 * void and value returning methods * Main reflects high level algorithm | 7 | 10 |

Grades of 4 or higher assumes that the code contains no logic or run-time errors and performs the required calculation correctly.

1: A class comment contains your name, student id and a short overall description of the program using block style comments and is placed between the *namespace* and *class* statements as in to the following example:

namespace FuelConsumption {

/\*

\* Calculates fuel consumption in l/100km and the equivalent mpg,

\* input units of measurement are litres (l) for the fuel used and

\* kilometres (km) for the distance travelled

\*

\* Author: Michael Roggenkamp, 8324059

\* Date: August 2015

\*

\*/

class Program {

***The following list is not intended to list all possible situations which will result in a loss of marks.***

**Marks will be deducted for the following:**

* **No class comment**
* **No value returning methods**
* **Less than 4 non-trivial methods**
* **Accepts out of range values**
  + **For fuel**
  + **For distance**
* **Invalid input format results in a run-time exception**
* **Input/output statements in Main**
* **Used global variables**
* **Used “goto”**