Assessment Feedback Form

Module	6SENG005W Formal Methods		
Module Leader	Klaus Draeger (K.Draeger@westminster.ac.uk)		
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Coursework	"Robot in Maze" B Specification		
Assessment Weight	50%		
Blackboard Submission	**13:00, Monday, 9th January 2023**		
Student		**Mark %**	

Feedback: (1) During pre-submission tutorials. (2) Comments given below.

GREEN: very good – excellent AMBER: okay – good RED: fail – poor

1. Maze Specification Forms

Structure Diagram of the Maze & Robot System	
	/ 10

2. Maze & Robot B Specification

Sets, Constants, Variables & Constraints		
SETS[3], CONSTANTS[7] & PROPERTIES[15]		**/ 25**
VARIABLES[2], INVARIANT[6] & INITIALISATION[2]		**/ 10**
TOTAL		**/ 35**

Movement Operations [All Movement Operations have: 1 Success & 2 Failure Cases]		
MoveRobotNorth [10] *MoveRobotSouth* [10] *MoveRobotEast* [10] *MoveRobotWest* [10]		**/ 40**
TeleportRobot		**/ 15**
Reset		**/ 5**
TOTAL		**/ 60**

Enquiry Operations		
GetPosition **[2]** *FoundExit* **[2]** *hasVisitedSquare* **[4]** *RobotsRoute* **[2]**		**/ 10**

Specification Structure (Used 1 B Machine or Several linked B Machines)		
Single B Machine		**/ 5**
Multiple B Machines		**/ 20**
TOTAL		**/ 25**

Specification Mark Total	**/ 130**
Specification Mark Scaled to 65% (Mark * 0.5)	**/ 65**

3. ProB Animation Session History Graph

ProB Animation Graph (“dot” file)	**/ 10**

4. B Tools Atelier B & ProB

Screen Shot Images (.png or .jpg) of Tool Usage & Specification Analysis		
Atelier B: Syntax & Type Check		**/ 4**
ProB: Initialisation		**/ 5**
ProB: Animation		**/ 2**
ProB Analysis: Evaluation View		**/ 2**
ProB Analysis: Eval Terminal		**/ 2**
TOTAL		**/ 15**

5. Additional General Comments (if appropriate)

Overall
Improvements