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| **4COSC006C: Software Development I - APPENDIX 1 – TEST PLANS** Student Name/ID: Y.V.A.Amarasinghe-20210409  Seminar Day/Time: Module Tutor: |

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| Student Name: Student ID: | | | | |
| TEST PLAN for Part 1  Submit completed test plan with your code solution | | | | |
| Test  No. | Test Input | Expected Result | Actual Result  (or state ‘not attempted’) | Pass / Fail  (‘Actual Result’ matches ‘Expected Result = Pass’) |
| 1 | Pass = 120  Defer = 0  Fail = 0 | ‘Progress’ is displayed | “Progress” | Pass |
| 2 | Pass = 100  Defer = 20  Fail = 0 | ‘Progress (module trailer)’ displayed | “Progress (module trailer)” | Pass |
| 3 | Pass = 100  Defer = 0  Fail = 20 | ‘Progress (module trailer)’ displayed | Progress (module trailer) | Pass |
| 4 | Pass = 80  Defer = 20  Fail = 20 | ‘Module retriever’ is displayed | Module retriever | Pass |
| 5 | Pass = 60  Defer = 40  Fail = 20 | ‘Module retriever’ is displayed | Module retriever | Pass |
| 6 | Pass = 40  Defer = 40  Fail = 40 | ‘Module retriever’ is displayed | Module retriever | Pass |
| 7 | Pass = 20  Defer = 40  Fail = 60 | ‘Module retriever’ is displayed | Module retriever | Pass |
| 8 | Pass = 20  Defer = 20  Fail = 80 | ‘Exclude’ displayed | Exclude | Pass |
| 9 | Pass = 20  Defer = 0  Fail = 100 | ‘Exclude’ displayed | Exclude | Pass |
| 10 | Pass = 0  Defer = 0  Fail = 120 | ‘Exclude’ displayed | Exclude | Pass |
| Validation | | | | |
| 11 | Pass = a | ‘Integer required’ displayed | Integer required | Pass |
| 12 | Pass = 5 | ‘Out of range’ displayed | Out of range | Pass |
| 13 | Pass = 100  Defer = 40  Fail = 0 | ‘Total incorrect’ displayed | Total incorrect | Pass |
| Displaying Histogram | | | | |
| 14 | Program loops | Predicts multiple progression outcomes | In the staff version, users can predict multiple progression outcomes | Pass |
| 15 | Enter ‘q’ to quit | Exits loop | Exits loop | Pass |
| 16 | Exit loop | Progress 1 : \*  Trailer 2 : \*\*  Retriever 4 : \*\*\*\*  Excluded 3 : \*\*\*  10 outcomes in total. | Displaying horizontal histogram according to the correct data inputs and correct processed data.  Progress 1 : \*  Trailer 2 : \*\*  Retriever 4 : \*\*\*\*  Excluded 3 : \*\*\*  10 outcomes in total. | Pass |

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| TEST PLAN for Part 2, 3 and 4 | | | Actual Result  (or state ‘not attempted’) | Pass/Fail |
| 17 | Vertical Histogram | Progress 1 | Trailer 2 | Retriever 4 | Exclude 1  \* \* \* \*  \* \* \*  \* \*  \*  10 outcomes in total. | Displaying horizontal histogram according to the correct data inputs  Progress 1 | Trailer 2 | Retriever 4 | Exclude 1  \* \* \* \*  \* \* \*  \* \*  \*  10 outcomes in total. | Pass |
| 18 | Solution uses list, tuple or dictionary | Output uses data stored to and retrieved from list, tuple or dictionary | Output uses data stored to and retrieved from list | Pass |
| 19 | Solution uses text file | Output uses data stored to and retrieved from text file | Output uses data stored to and retrieved from universitypredictions.txt text file | Pass |