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| **4COSC006C: Software Development I - APPENDIX 1 – TEST PLANS** Student Name/ID: W1867585  Seminar Day/Time: Module Tutor: Mr Torin Weerasingha |

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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 | progression outcome:Progress | Pass |
| 2 | Pass = 100  Defer = 20  Fail = 0 | ‘Progress (module trailer)’ displayed | progression outcome:Progress (module trailer) | Pass |
| 3 | Pass = 100  Defer = 0  Fail = 20 | ‘Progress (module trailer)’ displayed | progression outcome:Progress (module trailer) | Pass |
| 4 | Pass = 80  Defer = 20  Fail = 20 | ‘Module retriever’ is displayed | progression outcome:Do not progress – module retriever | Pass |
| 5 | Pass = 60  Defer = 40  Fail = 20 | ‘Module retriever’ is displayed | progression outcome:Do not progress – module retriever | Pass |
| 6 | Pass = 40  Defer = 40  Fail = 40 | ‘Module retriever’ is displayed | progression outcome:Do not progress – module retriever | Pass |
| 7 | Pass = 20  Defer = 40  Fail = 60 | ‘Module retriever’ is displayed | progression outcome:Do not progress – module retriever | Pass |
| 8 | Pass = 20  Defer = 20  Fail = 80 | ‘Exclude’ displayed | progression outcome:Exclude | Pass |
| 9 | Pass = 20  Defer = 0  Fail = 100 | ‘Exclude’ displayed | progression outcome:Exclude | Pass |
| 10 | Pass = 0  Defer = 0  Fail = 120 | ‘Exclude’ displayed | progression outcome:Exclude | Pass |
| Validation | | | | |
| 11 | Pass = a | ‘Integer required’ displayed | Integer required!Enter again! | Pass |
| 12 | Pass = 5 | ‘Out of range’ displayed | Out of range.Try again! | Pass |
| 13 | Pass = 100  Defer = 40  Fail = 0 | ‘Total incorrect’ displayed | Total Incorrect. Try again! | Pass |
| Displaying Histogram | | | | |
| 14 | Program loops | Predicts multiple progression outcomes | options:  1 - staff version  2 - student version  Enter the number of your option:1  Enter your number of credits at pass:120  Enter your number of credits at defer:0  Enter your number of credits at fail:0  progression outcome:Progress  Would you like to enter another set of data?Enter 'y' to continue or 'q' to quit:y  Enter your number of credits at pass:100  Enter your number of credits at defer:20  Enter your number of credits at fail:0  progression outcome:Progress (module trailer)  Would you like to enter another set of data?Enter 'y' to continue or 'q' to quit:y  Enter your number of credits at pass:100  Enter your number of credits at defer:0  Enter your number of credits at fail:20  progression outcome:Progress (module trailer)  Would you like to enter another set of data?Enter 'y' to continue or 'q' to quit:y  Enter your number of credits at pass:80  Enter your number of credits at defer:20  Enter your number of credits at fail:20  progression outcome:Do not progress – module retriever  Would you like to enter another set of data?Enter 'y' to continue or 'q' to quit:y  Enter your number of credits at pass:60  Enter your number of credits at defer:40  Enter your number of credits at fail:20  progression outcome:Do not progress – module retriever  Would you like to enter another set of data?Enter 'y' to continue or 'q' to quit:y  Enter your number of credits at pass:40  Enter your number of credits at defer:40  Enter your number of credits at fail:40  progression outcome:Do not progress – module retriever  Would you like to enter another set of data?Enter 'y' to continue or 'q' to quit:y  Enter your number of credits at pass:20  Enter your number of credits at defer:40  Enter your number of credits at fail:60  progression outcome:Do not progress – module retriever  Would you like to enter another set of data?Enter 'y' to continue or 'q' to quit:y  Enter your number of credits at pass:20  Enter your number of credits at defer:20  Enter your number of credits at fail:80  progression outcome:Exclude  Would you like to enter another set of data?Enter 'y' to continue or 'q' to quit:y  Enter your number of credits at pass:20  Enter your number of credits at defer:0  Enter your number of credits at fail:100  progression outcome:Exclude  Would you like to enter another set of data?Enter 'y' to continue or 'q' to quit:y  Enter your number of credits at pass:0  Enter your number of credits at defer:0  Enter your number of credits at fail:120  progression outcome:Exclude | Pass |
| 15 | Enter ‘q’ to quit | Exits loop | >>> | Pass |
| 16 | Exit loop | Progress 1 : \*  Trailer 2 : \*\*  Retriever 4 : \*\*\*\*  Excluded 1 : \*  8 outcomes in total. | 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  \* \* \* \*  \* \*  \*  \*  8 outcomes in total. | Progress 1 | Trailing 2 | Retriever 4 | Excluded 3  \* \* \* \*  \* \* \*  \* \*  \*  10 outcomes in total | Pass |
| 18 | Solution uses list, tuple or dictionary | Output uses data stored to and retrieved from list, tuple or dictionary | Progress - 120 , 0 , 0  Progress (module trailer) - 100 , 20 , 0  Progress (module trailer) - 100 , 0 , 20  Module retriever - 80 , 20 , 20  Module retriever - 60 , 40 , 20  Module retriever - 40 , 40 , 40  Module retriever - 20 , 40 , 60  Exclude - 20 , 20 , 80  Exclude - 20 , 0 , 100  Exclude - 0 , 0 , 120 | Pass |
| 19 | Solution uses text file | Output uses data stored to and retrieved from text file | Progress - 120 , 0 , 0  Progress (module trailer) - 100 , 20 , 0  Progress (module trailer) - 100 , 0 , 20  Module retriever - 80 , 20 , 20  Module retriever - 60 , 40 , 20  Module retriever - 40 , 40 , 40  Module retriever - 20 , 40 , 60  Exclude - 20 , 20 , 80  Exclude - 20 , 0 , 100  Exclude - 0 , 0 , 120 | Pass |