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| **4COSC006C: Software Development I - APPENDIX 1 – TEST PLANS** Student Name/ID: Seniru Hasith Gunathilake  Seminar Day/Time: Module Tutor: Saman Hettiarachchi |

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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 | Do not progress (module retriever) | Pass |
| 5 | Pass = 60  Defer = 40  Fail = 20 | ‘Module retriever’ is displayed | Do not progress (module retriever) | Pass |
| 6 | Pass = 40  Defer = 40  Fail = 40 | ‘Module retriever’ is displayed | Do not progress (module retriever) | Pass |
| 7 | Pass = 20  Defer = 40  Fail = 60 | ‘Module retriever’ is displayed | Do not progress (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 | Please enter an integer !! | Pass |
| 12 | Pass = 5 | ‘Out of range’ displayed | Value 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 | while choice == "y":  predicts multiple progressions using a while loop | Pass |
| 15 | Enter ‘q’ to quit | Exits loop | Enter 'y' to continue or 'q' to exit and view results | Pass |
| 16 | Exit loop | Progress 1 : \*  Trailer 2 : \*\*  Retriever 4 : \*\*\*\*  Excluded 1 : \*  8 outcomes in total. | Horizontal histogram  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 Trailer Retriever Exclude  \* \* \* \*  \* \* \*  \* \*  \*  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 Trailer Retriever Exclude  \* \* \* \*  \* \* \*  \* \*  \*  10 Outcomes in Total  Progress - 120 , 0 , 0  Progress (module trailer) - 100 , 20 , 0  Progress (module trailer) - 100 , 0 , 20  Do not progress (module retriever) - 80 , 20 , 20  Do not progress (module retriever) - 60 , 40 , 20  Do not progress (module retriever) - 40 , 40 , 40  Do not progress (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 | Would you like to enter another set of data ?  Enter 'y' to continue or 'txt' to output the data stored':  'h' to quite and view results in Horizontal Histogram  'v' to quite and view results in vertical histogram : txt  Progress - 120, 0, 0  Progress (module trailer) - 100, 20, 0  Progress (module trailer) - 100, 0, 20  Do not progress (module retriever) - 80, 20, 20  Do not progress (module retriever) - 60, 40, 20  Do not progress (module retriever) - 40, 40, 40  Do not progress (module retriever) - 20, 40, 60  Exclude - 20, 20, 80  Exclude - 20, 0, 100  Exclude - 0, 0, 120 | Pass |