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| **4COSC006C: Software Development I - APPENDIX 1 – TEST PLANS** Student Name/ID: 18676570  Seminar Day/Time:Monday / [11:00 – 13:00] Module Tutor:Mr.Torin Weerasingha |

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| Student Name: Hesaru Senith Wannigama 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 | Please enter your credits at pass:120  Please enter your credit at defer:0  Please enter your credit at fail:0  Progress | pass |
| 2 | Pass = 100  Defer = 20  Fail = 0 | ‘Progress (module trailer)’ displayed | Please enter your credits at pass:100  Please enter your credit at defer:20  Please enter your credit at fail:0  Progress (module trailer) | pass |
| 3 | Pass = 100  Defer = 0  Fail = 20 | ‘Progress (module trailer)’ displayed | Please enter your credits at pass:100  Please enter your credit at defer:0  Please enter your credit at fail:20  Progress (module trailer) | pass |
| 4 | Pass = 80  Defer = 20  Fail = 20 | ‘Module retriever’ is displayed | Please enter your credits at pass:80  Please enter your credit at defer:20  Please enter your credit at fail:20  Module retriever | pass |
| 5 | Pass = 60  Defer = 40  Fail = 20 | ‘Module retriever’ is displayed | Please enter your credits at pass:60  Please enter your credit at defer:40  Please enter your credit at fail:20  Module retriever | pass |
| 6 | Pass = 40  Defer = 40  Fail = 40 | ‘Module retriever’ is displayed | Please enter your credits at pass:40  Please enter your credit at defer:40  Please enter your credit at fail:40  Module retriever | pass |
| 7 | Pass = 20  Defer = 40  Fail = 60 | ‘Module retriever’ is displayed | Please enter your credits at pass:20  Please enter your credit at defer:40  Please enter your credit at fail:60  Module retriever | pass |
| 8 | Pass = 20  Defer = 20  Fail = 80 | ‘Exclude’ displayed | Please enter your credits at pass:20  Please enter your credit at defer:20  Please enter your credit at fail:80  Exclude | pass |
| 9 | Pass = 20  Defer = 0  Fail = 100 | ‘Exclude’ displayed | Please enter your credits at pass:20  Please enter your credit at defer:0  Please enter your credit at fail:100  Exclude | pass |
| 10 | Pass = 0  Defer = 0  Fail = 120 | ‘Exclude’ displayed | Please enter your credits at pass:0  Please enter your credit at defer:0  Please enter your credit at fail:120  Exclude | pass |
| Validation | | | | |
| 11 | Pass = a | ‘Integer required’ displayed | Please enter your credits at pass:a  Integer required | pass |
| 12 | Pass = 5 | ‘Out of range’ displayed | Please enter your credits at pass:5  Out of range | pass |
| 13 | Pass = 100  Defer = 40  Fail = 0 | ‘Total incorrect’ displayed | Please enter your credits at pass:100  Please enter your credit at defer:40  Please enter your credit at fail:0  Total incorrect | pass |
| Displaying Histogram | | | | |
| 14 | Program loops | Predicts multiple progression outcomes |  | pass |
| 15 | Enter ‘q’ to quit | Exits loop |  | 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. | Fail |

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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 Trailing Retriever Excluded  \* \* \* \*  \* \* \*  \* \*  \*  10 outcomes in total. | Fail |
| 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 |