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| **4COSC006C: Software Development I - APPENDIX 1 – TEST PLANS** Student Name/ID: Saveen Dinuwara Haupe Liyanage / 20210180 / w1912843  Seminar Day/Time: Module Tutor: Mr. Guhanathan Poravi |

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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 |
| 11 | Pass = 60  Defer = 0  Fail = 60 | ‘Module retriever’ is displayed | Module retriever | Pass |
| 12 | Pass = 60  Defer = 60  Fail = 0 | ‘Module retriever’ is displayed | Module retriever | Pass |
| 13 | Pass = 40  Defer = 0  Fail = 80 | ‘Exclude’ displayed | Exclude | Pass |
| Validation | | | | |
| 14 | Pass = a | ‘Integer required’ displayed | Integer required | Pass |
| 15 | Pass = 5 | ‘Out of range’ displayed | Out of range | Pass |
| 16 | Pass = 100  Defer = 40  Fail = 0 | ‘Total incorrect’ displayed | Total Incorrect | Pass |
| Displaying Histogram | | | | |
| 17 | Program loops | Predicts multiple progression outcomes | Predicts multiple progression outcomes | Pass |
| 18 | Enter ‘q’ to quit | Exits loop | Exits from the loop to the menu -  1. Horizontal Histogram  2. Vertical Histogram  3. Lists  4. Text File | Pass |
| 19 | Exit loop | Progress 1 : \*  Trailer 2 : \*\*  Retriever 4 : \*\*\*\*  Excluded 1 : \*  8 outcomes in total. | Horizontal Histogram  Progress 1 : \*  Trailer 2 : \*\*  Retriever 4 : \*\*\*\*  Excluded 1 : \*  8 outcome(s) in total. | Pass |

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| TEST PLAN for Part 2, 3 and 4 | | | Actual Result  (or state ‘not attempted’) | Pass/Fail |
| 20 | Vertical Histogram | Progress 1 | Trailer 2 | Retriever 4 | Exclude 1  \* \* \* \*  \* \*  \*  \*  8 outcomes in total. | Vertical Histogram  Progress Trailer Retriever Excluded  \* \* \* \*  \* \*  \*  \*  8 outcome(s) in total. | Pass |
| 21 | Solution uses list, tuple or dictionary | Output uses data stored to and retrieved from list, tuple or dictionary | The user input data were stored in inputs list and appended to list\_progress, list\_trailer, list\_excluded, list\_retriever accordingly and each list is printed according to the given user inputs. | Pass |
| 22 | Solution uses text file | Output uses data stored to and retrieved from text file | The user input data stored in the lists is written in a text file and also read. | Pass |

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| TEST PLAN for Option Menu in Staff Version | | | Actual Result  (or state ‘not attempted’) | Pass/Fail |
| 23 | 1. Vertical Histogram | Vertical Histogram is printed according to the input data when selected option 1 | Vertical Histogram is printed according to the input data  Vertical Histogram is printed according to the input data when selected option 1 | Pass |
| 24 | 2. Horizontal Histogram | Horizontal Histogram is printed  according to the input data when selected option 2. | Horizontal Histogram is printed  according to the input data when selected option 2. | Pass |
| 25 | 3. Lists | Lists are printed according to the user inputs when selected option 3. | Lists are printed according to the user inputs when selected option 3. | Pass |
| 26 | 4. Text File | Text File is written and retrieved according to the user inputs when selected option 4. | Text File is written and retrieved according to the user inputs when selected option 4. | Pass |

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| TEST PLAN for Main Menu | | | Actual Result  (or state ‘not attempted’) | Pass/Fail |
| 27 | 1.Student Version | Getting inputs and displays the output. | Getting inputs and displays the output. | Pass |
| 28 | 2 Staff Version | Getting inputs and asking whether to continue(y)or not(q). If continue new inputs are taken else staff version menu is displayed and output is given accordingly. | Getting inputs and asking whether to continue(y)or not(q). If continue new inputs are taken else staff version menu is displayed and output is given accordingly. | Pass |
| 29 | 3. Exit | Exits the program. | Exits the program. | Pass |