

4COSC006C: Software Development I - APPENDIX 1 – TEST PLANS

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Seminar Day/Time: **27.03.2022**

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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 | Invalid Input! Integer required! | Pass |
| 12 | Pass = 5 | ‘Out of range’ displayed | Invalid Input! 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 | Predicts multiple progression outcomes | Pass |
| 15 | Enter 'q' to quit | Exits loop | Exits from the loop of the process_loop function | 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 1 : * 8 outcomes in total | Pass |

| 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. | Vertical Histogram Progress 1 Trailer 2 Retriever 4 Exclude 1 * * * * * * * * * 8 outcomes in total | Pass |
| 18 | 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 few lists and each element in the lists have been displayed under the progression data list | Pass |
| 19 | Solution uses text file | Output uses data stored to and retrieved from text file | The stored data have been written into the text file successfully and reads from the text file line by line and prints them | Pass |