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| **4COSC006C: Software Development I - APPENDIX 1 – TEST PLANS** Student Name/ID: Sathursh Narendiran (w1867420) {IIT- 20210092}  Seminar Day/Time: Module Tutor: Saman Hettiarachchi |

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| Student Name: Sathursh Narendiran Student ID: (w1867420) {IIT- 20210092} | | | | |
| 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 | Integer required | pass |
| 12 | Pass = 5 | ‘Out of range’ displayed | 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 | Displayed | pass |
| 15 | Enter ‘q’ to quit | Exits loop | Press q to exit | pass |
| 16 | Exit loop | Progress 1: \*  Trailer 2: \*\*  Retriever 4: \*\*\*\*  Excluded 1: \*  8 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. |  | pass |
| 18 | Solution uses list, tuple, or dictionary | Output uses data stored to and retrieved from list, tuple, or dictionary | Output: - | Pass |
| 19 | Solution uses text file | Output uses data stored to and retrieved from text file | Data from the text file is retrieved into the programme | Pass |

References

• Reference any code taken from other sources in your program code with python program comments.

1. <https://www.datacamp.com/community/tutorials/python-if-elif-else?utm_source=adwords_ppc&utm_medium=cpc&utm_campaignid=14989519638&utm_adgroupid=127836677279&utm_device=c&utm_keyword=&utm_matchtype=&utm_network=g&utm_adpostion=&utm_creative=278443377095&utm_targetid=aud-438999696719:dsa-429603003980&utm_loc_interest_ms=&utm_loc_physical_ms=1009919&gclid=Cj0KCQiAqbyNBhC2ARIsALDwAsA21FPOUOPywlVT7QboV1RcLVgtka4yjnYQ11X0xqf5ST_rmWOgrFsaAoh_EALw_wcB>
2. <http://www.learntosolveit.com/cprogramming/Ex_1.13.2_His_vertical.html>
3. <https://www.w3schools.com/python/python_file_open.asp>

• Include the following at the top of your program(s).

# I declare that my work contains no examples of misconduct, such as plagiarism, or collusion.

# Any code taken from other sources is referenced within my code solution.

# Student ID: -- w1867420 (IIT id- 20210092)

# Date: ………08/12/2021……