INFORMATICS INSTITUTE OF TECHNOLOGY

UNIVERSITY OF WESTMINSTER⊞

Informatics Institute of Technology

Department of Computing

(B.Eng.) in Software Engineering

Module: 4COSC006C Programming Principle 1

Module Leader: Mr. Saman Hettiarachchi

Coursework: Test Plan

Date of Submission: 11th December 2020
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APPENDIX 1 – TEST PLAN for Part 1 & 2

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')
1	Pass = 120 Defer = 0 Fail = 0	'Progress' is displayed	**Progress**	**Pass**
2	Pass = 100 Defer = 20 Fail = 0	'Progress (module trailer)' is displayed	**Progress (Module Trailer)**	**Pass**
3	Pass = 100 Defer = 0 Fail = 20	'Progress (module trailer)' is displayed	**Progress (Module Trailer)**	**Pass**
4	Pass = 80 Defer = 20 Fail = 20	'Do not Progress – module retriever' is displayed	**Do not progress - Module Retriever**	**Pass**
5	Pass = 60 Defer = 40 Fail = 20	'Do not Progress – module retriever' is displayed	**Do not progress - Module Retriever**	**Pass**
6	Pass = 40 Defer = 40 Fail = 40	'Do not Progress – module retriever' is displayed	**Do not progress - Module Retriever**	**Pass**
7	Pass = 20 Defer = 40 Fail = 60	'Do not Progress – module retriever' is displayed	**Do not progress - Module Retriever**	**Pass**
8	Pass = 20 Defer = 20 Fail = 80	'Exclude' is displayed	**Exclude**	**Pass**
9	Pass = 20 Defer = 0 Fail = 100	'Exclude' is displayed	**Exclude**	**Pass**
10	Pass = 0 Defer = 0 Fail = 120	'Exclude' is displayed	**Exclude**	**Pass**
TEST PLAN for Part 2				
11	Pass = a	'Integer required' displayed	******* Integer Required ******* **Please Enter Your Credits At Pass :**	**Pass**
12	Pass = 5	'Out of range' displayed	******* Out of Range ******* **Please Enter Your Credits At Pass :**	**Pass**

| 13 | Pass = 100
Defer = 40
Fail = 0 | 'Total incorrect' displayed | ******* Total Inccorect:- Total credits is More than 120 *******

Please Enter Your Credits At Pass : | **Pass** |

TEST PLAN for **Part 3**				
Submit this completed test plan with your solution code				
Test No.	Test Input	Expected Result	Actual Result (or 'not attempted')	Pass/Fail
14	Pass = 120 Defer = 0 Fail = 0	'Progress' is displayed	**Progress**	**Pass**
15	Pass = 100 Defer = 20 Fail = 0	'Progress (module trailer)' is displayed	**Progress (Module Trailer)**	**Pass**
16	Pass = 100 Defer = 0 Fail = 20	'Progress (module trailer)' is displayed	**Progress (Module Trailer)**	**Pass**
17	Pass = 80 Defer = 20 Fail = 20	'Do not Progress – module retriever' is displayed	**Do not progress - Module Retriever**	**Pass**
18	Pass = 60 Defer = 20 Fail = 40	'Do not Progress – module retriever' is displayed	**Do not progress - Module Retriever**	**Pass**
19	Pass = 40 Defer = 80 Fail = 0	'Do not Progress – module retriever' is displayed	**Do not progress - Module Retriever**	**Pass**
20	Pass = 40 Defer = 40 Fail = 40	'Do not Progress – module retriever' is displayed	**Do not progress - Module Retriever**	**Pass**
21	Pass = 20 Defer = 20 Fail = 80	'Exclude' is displayed	**Exclude**	**Pass**
Displaying Histogram				
22	Enter 'q' to quit	Exits loop	Would you like to enter another set of data? Enter 'y' for yes or 'q' to quit and view results: **q**	**Pass**
23	Exit loop	Progress 1 : * Trailer 2 : ** Retriever 4 : **** Excluded 1 : * 8 outcomes in total	**Horizontal Histogram** **Progress 1 : *** **Trailer 2 : **** **Retriever 4 : ***** **Exclude 1 : *** **8 outcomes in total.**	**Pass**

TEST PLAN for Part 4				Pass/Fail
24	Use test data from Part 3 TEST plan 14-21			**Pass**
25	Enter 'q' to quit / Exit loop	Expected result	Actual Result	**Pass**

Expected result:

Progress 1 | Trailer 2 | Retriever 4 | Exclude 1
```
   *         *         *         *
             *         *
                       *
                       *
```

8 outcomes in total

Actual Result:

Vertical Histogram

Progress 2 | Trailer 2 | Retriever 4 | Exclude 4
```
   *         *         *         *
             *         *
                       *
                       *
```

8 outcomes in total.

APPENDIX 3 – TEST PLAN for Part 5

TEST PLAN for Part 5				
Submit this completed test plan with your solution code				
Test No.	Test Input	Expected Result	Actual Result (or state 'not attempted')	Pass / Fail
| 26 | Program is run | ```
Progress
Progress (module trailer)
Progress (module trailer)
Do not Progress - module
retriever
Do not Progress - module
retriever
Do not Progress - module
retriever
Do not Progress - module
retriever
Exclude
Exclude
Exclude

Progress  1: *
Trailing  2: **
Retriever 4: ****
Excluded  3: ***

10 outcomes in total.
``` | **Progress**<br>**Progress (Module Trailer)**<br>**Progress (Module Trailer)**<br>**Do not progress - Module Retriever**<br>**Do not progress - Module Retriever**<br>**Do not progress - Module Retriever**<br>**Do not progress - Module Retriever**<br>**Exclude**<br>**Exclude**<br>**Exclude**<br><br>-------------------------------------------<br>**Horizontal Histogram**<br><br>**Progress  1 : ***<br>**Trailer    2 : ****<br>**Retriever 4 : ******<br>**Exclude   3 : *****<br><br>**10 outcomes in total.**<br>------------------------------------------- | **Pass** |