# University of Westminster

# Software Development I

# 4COSC006C

## TEST PLAN

### Part 1

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## Abstract

This report consists of one programming question answered methodically.

The code is written by python language.

Python 3.11 version is used for this code.

## Acknowledgement

I am glad to extend our sincere obligation to our module leader Mr. Saman Hettiarachchi and lecturer Mr. Ryan Kuruppu for their inspiring guidance, encouragement and motivation in completing my coursework project well. I thank all who guided, supported, cooperated, and helped with my coursework, who corrected me work whenever it went wrong, and who gave suggestions and tips for my coursework throughout the project. I learned a lot of things from this course work.

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**Student Name/ID:    20222132**

**Westminster ID:    W2052950**
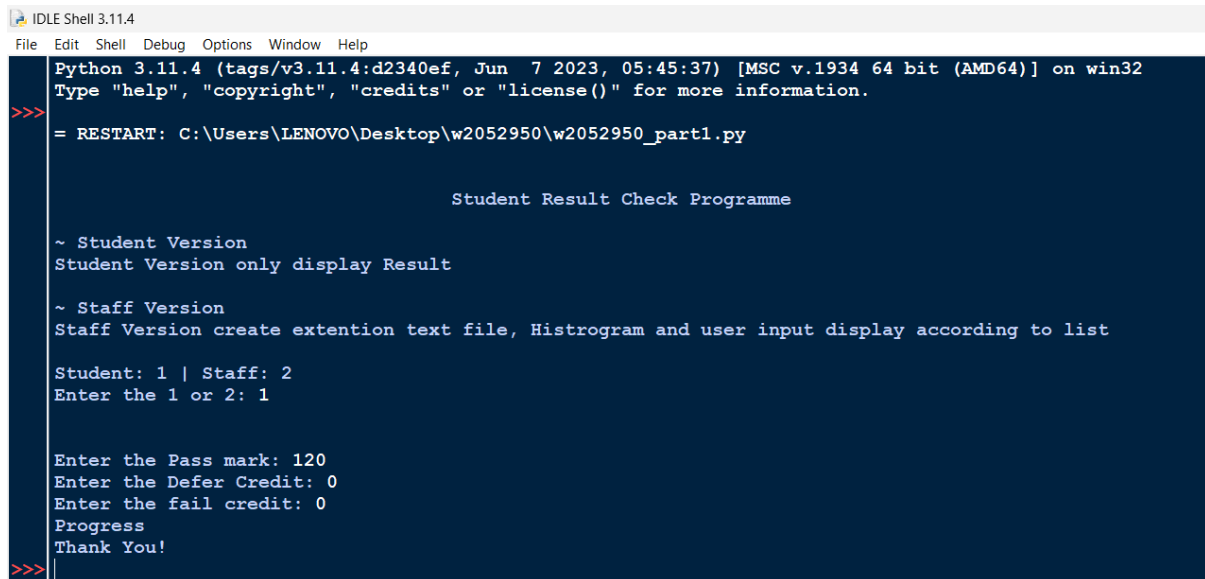
**Module Tutor: Ryan Kuruppu**

## Test case Table

| Test Component | Test No. | Test Input | A - Expected Result | B - Actual Result (or state 'not attempted') | Pass/Fail ('A' matches 'B' == Pass) |
|---|---|---|---|---|---|
| | Student Name: | | | Student ID: | |
| | TEST PLAN for **Part 1 :** Submit completed test plan with your code solution | | | | |
| Progress | 1 | Pass = 120<br>Defer = 0<br>Fail = 0 | 'Progress' displayed | Display the "progress" | Pass |
| Progress (module trailer) | 2.1 | Pass = 100<br>Defer = 20<br>Fail = 0 | 'Progress (module trailer)' displayed | Display "progress (module trailer)" | Pass |
| | 2.2 | Pass = 100<br>Defer = 0<br>Fail = 20 | 'Progress (module trailer)' displayed | Display "progress (module trailer)" | Pass |
| Module retriever | 3.1 | Pass = 80<br>Defer = 20<br>Fail = 20 | 'Module retriever' is displayed | Display "module retriever" | Pass |
| | 3.2 | Pass = 60<br>Defer = 0<br>Fail = 60 | 'Module retriever' is displayed | Display "module retriever" | Pass |
| | 3.3 | Pass = 40<br>Defer = 80<br>Fail = 0 | 'Module retriever' is displayed | Display "module retriever | Pass |
| | 3.4 | Pass = 20<br>Defer = 40<br>Fail = 60 | 'Module retriever' is displayed | Display "module retriever" | Pass |
| | 3.5 | Pass = 0<br>Defer = 60<br>Fail = 60 | 'Module retriever' is displayed | Display "module retriever" | Pass |
| Exclude | 4.1 | Pass = 40<br>Defer = 0<br>Fail = 80 | 'Exclude' displayed | Display "Exclude" | Pass |
| | 4.2 | Pass = 20<br>Defer = 0<br>Fail = 100 | 'Exclude' displayed | Display "Exclude" | Pass |
| Validation | 5.1 | Pass = a | 'Integer required' | Display "integer required" | Pass |
| | 5.2 | Pass = 5 | 'Out of range' | Display "out of range" | Pass |

| | 5.3 | Pass = 100 Defer = 40 Fail = 0 | 'Total incorrect' displayed | Display "total incorrect" | Pass |
|---|---|---|---|---|---|
| Loops for multiple inputs | 6.1 | Program loops | Predicts multiple progression outcomes | Display multiple progress outcomes | Pass |
| | 6.2 | Enter 'q' | Exits loop | Exits programme | Pass |
| Histogram | 7.1 | | Window pops up and renders graph. Includes values for Progress, Trailer, Retriever and Excluded | Show histogram and values for progress, trailer, retriever and excluded | Pass |
| | 7.2 | | Shows outcomes in total. | Show outcomes in total | Pass |

# Test cases screen shots



*Figure 1 Progress (student version)*



*Figure 2.1 Progress (module trailer) Student version*

Figure 2.2 Progress (Module Trailer) Student Version



Figure 3.1 Module Retriever (Student Version)

*Figure 3.2 Module retriever (Student Version)*



*Figure 3.3 Module retriever (Student Version)*

*Figure 3.4 Module retriever (Student Version)*



*Figure 3.5 Module retriever (Student Version)*

*Figure 4.1 Exclude (Student version)*



*Figure 4.2 Exclude (Student version)*

*Figure 5.1 Integer Required (Student Version)*



*Figure 5.2 Out of Range (Student Version)*

*Figure 5.3 Total incorrect (Student Version)*



*Figure 6.1 Loops for Multiple Outcomes (Staff Version)*

```
IDLE Shell 3.11.4
File  Edit  Shell  Debug  Options  Window  Help
>>>
    = RESTART: C:\Users\LENOVO\Desktop\w2052950\w2052950_part1.py


                              Student Result Check Programme

    ~ Student Version
    Student Version only display Result

    ~ Staff Version
    Staff Version create extention text file, Histrogram and user input display according to list

    Student: 1 | Staff: 2
    Enter the 1 or 2: 2


    if you want or not previous text file then enter Yes(y) or No(n): n


    Enter the Pass mark: 120
    Enter the Defer Credit: 0
    Enter the fail credit: 0
    Progress

    Would you like to enter another set of data?
    Enter 'y' for yes or 'q' to quit and view results: y


    Enter the Pass mark: 60
    Enter the Defer Credit: 60
    Enter the fail credit: 0
    Module retriever

    Would you like to enter another set of data?
    Enter 'y' for yes or 'q' to quit and view results: q



    Progress - 120,0,0
    Module retriever - 60,60,0
>>>
```
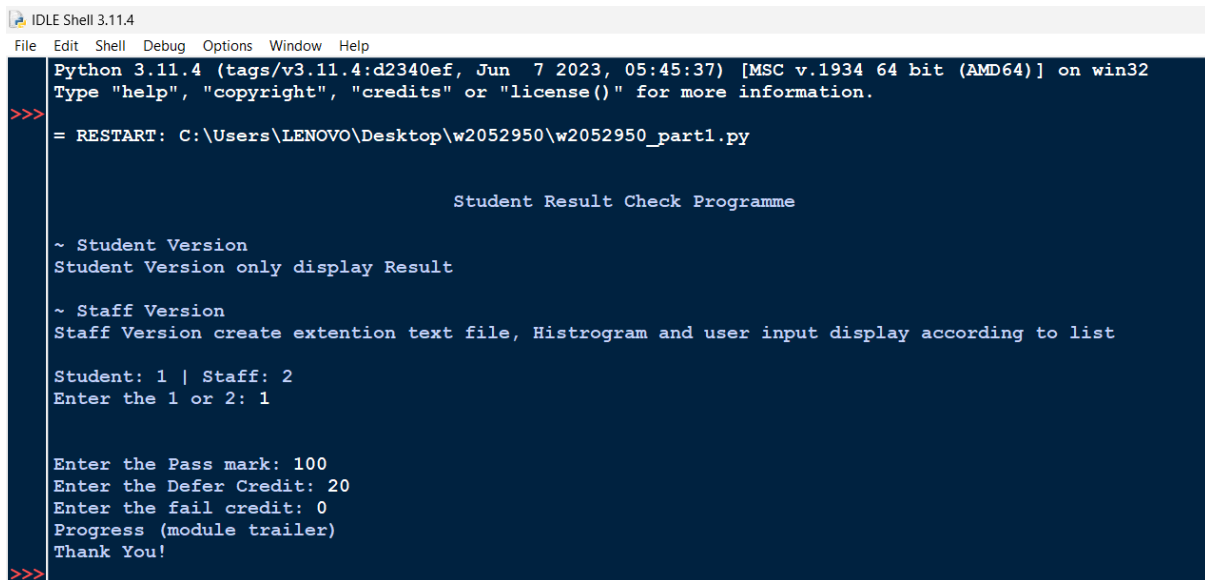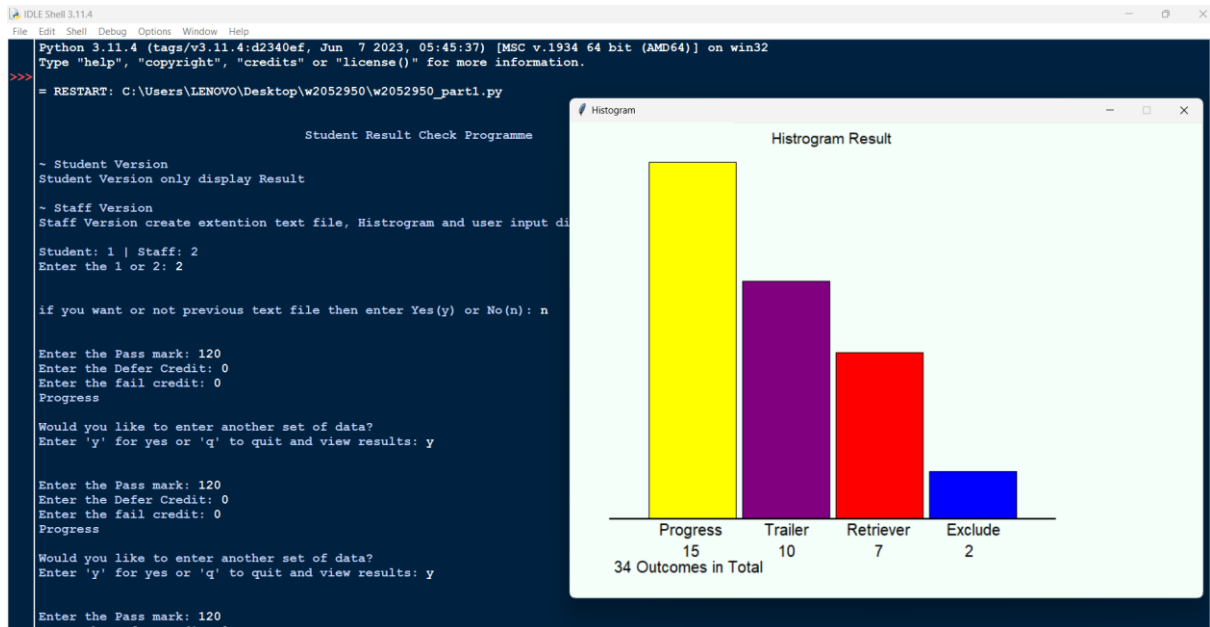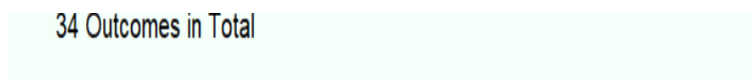
*Figure 6.2 Exit Loop (Staff Version)*

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*Figure 8.1 Histrogram*



*Figure 7.2 Total Outcomes*