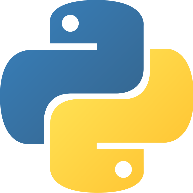
In Course Assessment Report - Element 2 (Computing and IT)

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CIS1028-N BF1-2021

Python Programming

Testing

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test ID** | **Description** | **Steps** | **Expected** | **Actual** | **Result** | **Comment** |
| 1 | Testing valid input of menu. | 1. Launch program.  2. Input “9”. | Program will kill and tell user to restart. | Program will kill and tell user to restart. | PASS | - |
| 2 | Testing no input of menu. | 1. Launch program.  2. Input “ENTER”. | Program will kill and tell user to restart. | Program will kill and tell user to restart. | PASS | - |
| 3 | Testing string input of menu. | 1. Launch program.  2. Input “Hello”. | Program will kill and tell user to restart. | Program will kill and tell user to restart. | PASS | -- |
| 4 | Testing float input of menu. | 1. Launch program.  2. Input “3.1415”. | Program will kill and tell user to restart. | Program will kill and tell user to restart. | PASS | - |
| 5 | Testing negative input of menu. | 1. Launch program.  2. Input “-10”. | Program will kill and tell user to restart. | Program will kill and tell user to restart. | PASS | - |
| 6 | Testing incorrect format for age. (COVID Data). | 1. Launch program.  2. Input “30-34”. | Syntax error should come up prompting user to restart program. | Syntax error came up prompting user to restart program. |  | - |
| 7 | Testing false values. (COVID Data) | 1. Launch program.  2. Input “Age [9-12]”. | Syntax error should come up prompting user to restart program. | Syntax error came up prompting user to restart program. |  | -- |
| 8 | Testing no input. (COVID Data) | 1. Launch program.  2. Input “ENTER”. | Syntax error should come up prompting user to restart program. | Syntax error came up prompting user to restart program. |  | - |
| 9 | Testing integer input on “Graph Question”. (COVID Data) | 1. Launch program.  2. Input “9”. | Syntax error should come up prompting user to restart program. | Program accepts input and displays empty graph. | FAIL | Try: Making an “If-Else statement” so values outside from age (correct format) can’t be inputted. |
| 10 | Testing string input on “Graph Question”. (COVID Data) | 1. Launch program.  2. Input “Hello”. | Syntax error should come up prompting user to restart program. | Program accepts input and displays empty graph. | FAIL | Try: Making an “If-Else statement” so values outside from age (correct format) can’t be inputted. |
| 11 | Test valid input. | 1. Launch program.  2. Select option 2.  3. Input “Forces”. | Data from API is pulled successfully. | Data is pulled successfully. | PASS | - |
| 12 | Test no input. | 1. Launch program.  2. Select option 2.  3. Input “ENTER”. | Program will exit. | Syntax error comes up about importing module file. | FAIL | Add a failsafe so only the selected options can be selected. |
| 13 | Test string input. | 1. Launch program.  2. Select option 2.  3. Input “Hello”. | Syntax error should come up. | Syntax module error came up. | PASS | - |
| 14 | Test float input. | 1. Launch program.  2. Select option 2.  3. Input “3.1415”. | Syntax error should come up. | Syntax module error came up. | PASS | - |
| 15 | Testing negative input. | 1. Launch program.  2. Select option 2.  3. Input “Hello”. | Syntax error should come up. | Syntax module error came up. | PASS | - |
| 16 | Testing string input on “Officers” program. | 1. Launch program.  2. Select option 2.  3. Input “Forces”.  3.Input “1”.  4.Input “Hi”. | Syntax error should come up. | Syntax module error came up. | PASS | - |

Reflective Report - Element 1 and 2

Element 1

In element 1 of the portfolio, the work I submitted included were four pages of key terms and processes used in Python. During completing this work, I believe I learned a great deal from the research and helped me understood how things worked in Python and why they worked. Furthermore, I had a greater understanding how each of the built-in functions, variables, modules all worked together in order to write a program. Overall, I was extremely happy with how my work turned out to be, as well as gaining a deeper understanding of that knowledge. The consequences of my personal decisions during completing the first element of the portfolio did have a huge impact on how it turned out. For example, I made use of the library resources to help me understand terms I couldn’t really decipher online, I also made the personal decision to start on the portfolio as soon as I could because I wanted to put as much effort into it as possible.

In addition to this, what also was extremely helpful were the tutorial sessions. Having the tutorial sessions each week with the lab portfolio work with tasks, gave me a chance to demonstrate the skills that were on the element 1 of the portfolio, giving me a chance to put the knowledge into practice. Feedback from the tutor was also helpful as he was walking around the room and available if I ever needed the help.

In conclusion, I am happy with the first element of my portfolio as I feel as I put as much effort in as possible, but what made me happy about completing the portfolio is that I gained a deeper understanding of how to use Python.

Element 2

Element 2 of the portfolio was the task of creating and compiling a program that was able to run and display and visualise Covid-19 data as well as Stop and Search data. In this part of the portfolio, I spent a longer period doing more research as this was a bigger task and I’ve never created a Python program to this extent. Upon reading the specifications for the ICA, I was slightly worried I wouldn’t be able to do this at all as when it comes to writing code it’s not my strong suit. Since been given this task, I’ve done a lot of research and read a lot of books that seemed to help with the knowledge of how to do this, but when attempting to write this, I kept running into errors and spent a lot of time figuring out why it happened. Overall, with the second element, I am happy with what work I’ve managed to complete, since I wouldn’t have been able to program this before. I understand it’s not a completely satisfactory model of what the task was given, however I believe I have achieved the best I could, the best of my coding ability. During this, tutor feedback has been helpful, especially in lectures which gives me the chance to ask questions. I struggled more so with the API than the COVID data which my program reflects.

In conclusion, I have achieved the very best I could manage and put the best effort into it, coming out with a better understanding of using Python3.