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| **CMM201: Programming Concepts for Business Analytics (Output 2)** **2019-2020**  **Student Name Elia Richter Assessment Grade B** | | | | | | | |
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| **GRADE** | **A** | **B** | **C** | **D** | **E** | **F** | **NS** |
| **DEFINITION** | EXCELLENT Outstanding Performance | COMMENDABLE Meritorious Performance | GOOD  Highly Competent  Performance | SATISFACTORY Competent Performance | BORDERLINE FAIL Open To Compensation | FAIL Unsatisfactory | NON-SUBMISSION |
| **(WEIGHTING) SOURCES OF ASSESSMENT CRITERIA** | IN ALL CASES WITHIN THE LIMITS APPROPRIATE TO THE LEVEL OF STUDY ... | | | | | | |
| **(70%)**  **Code Functionality** | All the required functionalities can be performed by the six options.  The notebook/pdf/html files clearly show the execution of the five options by means of a “main” programme. | Most of the required functionalities can be performed by the five options, or two of the functions doesn’t work properly.  The notebook/pdf/html files show the execution of the five options by means of a “main” programme. | Three out of the six options don’t work properly.  The notebook/pdf/html files show some execution of the five options by means of a “main” programme to a certain extent. | Four out of the six options don’t work properly.  The notebook/pdf/html files show some the execution of the five options by means of a “main” programme, or this section does not work properly. | One of the functions shows some functionality, but not the rest.  A “main” programme has not been implemented. | No functionality is shown by the five options.  A “main” programme has not been implemented. | No functionality has been implemented. |
| **(30%)**  **Questions** | All questions are fully answered in a clear and concise manner. Code is used to support statements. There is a critical discussion of the findings, and a research is undertaken using appropriate sources. | Questions are answered mostly in a clear and concise manner. Some code is used to support answers. There is a discussion of the findings, and some research is undertaken using appropriate sources. | Questions are answered in some manner. Minimum code is used to support answers. There is a discussion of the findings, and some research is undertaken using some sources. | Questions are answered in a barely appropriate manner. No code is used to support answers. There is barely a discussion of the findings, and some research is undertaken using some sources. | Questions are answered, but not in an appropriate manner. No code is used to support answers. There is no a discussion of the findings, and no research is undertaken using inappropriate or incorrect sources. | Questions are answered ineffectively and with no code or discussion. | Not questions have been answered. |

**Comments:** The code overall does a very good job implementing all desired functions. I really liked the feature of accessing from last to first in the second option, however this feature crashes if you put a very small number (i.e. -100000). In option 3, your program was uncapable to handle an empty string for an option of column name. Also, you forgot to include the cell with the packages to install. The first question was answered correctly, and the second question was answered solely by using code. It could have been benefitted by some discussion regarding why you selected these methods, nonetheless the functions used are outstanding. You didn’t list the sources used.