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| **CMM201: Programming Concepts for Business Analytics (Output 2)** **2019-2020**  **Student Name Sana Hayee Assessment Grade C** | | | | | | | |
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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 is well implemented; however, you can see in the feedback file that there are some points in which the options crash. Moreover, the creation of the “reduced” dataset and the plot have some flaws. My main concern is the use of the data structures requested, as you have used Pandas in the program instead of numpy arrays. I appreciate that you have used alternatives to circumvent this, however the coursework was designed to evaluate the use of numpy arrays. With respect to the open questions, the first one was correctly answered as indeed, Pandas are a more suitable data structure to use in these situations. The second question shows some code that can produce a linear regression (i.e. a line above the points), however you failed to discuss how this couls predict new values and how we could use metrics such as R2 or Pearson’s coefficient to discover which two variables are most correlated.