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| **CMM201: Programming Concepts for Business Analytics (Output 1)** **2019-2020**  **Student Name Sana Hayee 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 five 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 one 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. | Two out of the five 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. | Three out of the five 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.  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. Problems are analysed correctly using effective examples. 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. Problems are analysed mostly correctly with some examples. There is a discussion of the findings, and some research is undertaken using appropriate sources. | Questions are answered in some manner. Problems are analysed with examples. There is a discussion of the findings, and some research is undertaken using some sources. | Questions are answered in a barely appropriate manner. Problems are not analysed and no examples are provided. 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. Problems are not analysed and no examples are provided. 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 examples or discussion. | No questions have been answered. |

**Feedback:** The program has the main functionalities requested with minor aspects missing (checking that the mark is not negative). The first question was answered correctly, as the two methods presented effectively are capable of handling the input dilemma, nonetheless the example provided is not effective at showing how this could be applied in the current code. The second question was not answered in a way that could showcase how one numpy array could contain both students and marks. The *html* and the *ipynb* files are not the same, as the first has the questions answered while the second does not.