Name: Michael Randazzo

Class: Intro to Computer Science

Unit: Algorithm Writing/Conditional Applications

Lesson Topic: Day 3 Reading and Applying Algorithms

Lesson Objective:

- Create a letter grade program from pseudocode of algorithm

SWBAT:

- Read and interpret pseudo code to construct a working program

Standards:

- 4-6.CT.1 Computational Thinking, Modeling and Simulation)
- 9-12.CT.9 Systematically test and refine programs using a range of test cases, based on anticipating common errors and user behavior.
- 9-12.CT.5 Modify a function or procedure in a program to perform its computation in a different way over the same inputs, while preserving the result of the overall program.
- 9-12.CT.8 Develop a program that effectively uses control structures in order to create a computer program for practical intent, personal expression, or to address a societal issue.

Teaching Tools:

- Visual Studio 2019, Smart Notebook, Google Docs

Procedures:

- **Do Now:** Students will be prompted to create a new project in Visual Studio and add the 3 required elements for part 1 of the project in the design window.
- Teacher will demo a working version of the code and as a class students will discuss how the code might work.
    - The key points of the discussion will be to break down the conditionals for the different letter grades.
    - **Teacher Prompt:** Teacher should record the key points made in the student discussion on the board.
- Students will open the letter grade pseudocode document on google classroom and copy it into their code window and complete parts 1, 2 and 3.
    - Students should complete the parts in order and they should check that their code works after completing each section.
    - **Teacher Prompt:** Teacher should check projects of students who have completed parts 1-3 but any student who has not finished the project will have their project checked the next day. Main focus will be on assisting students on debugging and ensuring that each student has at least completed part 1