1. **Assignment Description**

* Create and optimize decision table for retirement pension policy of teachers in Michigan public school.
* Prepare state table and write test cases for Microwave oven state diagram.

1. **Author(s)**

Rafif, Maha, Danielle, Pranay

1. **Summary**

**Tool used:** Microsoft Excel, Google doc

1. Based on a problem set given for the retirement policy for teachers in Michigan Public school is needed to figure out different inputs possibilities through which outputs and effects can occur. The decision table was optimized with some reductions wherein the outcomes are the same based on given combination of inputs.
2. Test cases written on the basis of state table for Microwave oven covers basic possibilities. A state diagram was provided for Microwave oven that describes different states and transitions between them. A total of 56 test cases are required to cover all the scenarios.

**Reflection:** Reductions in the decision table helped to rule out combinations thus assisting to limit the test cases. Diversified thinking was required to decide on the test cases to be used.

1. **Team Member Roles and Contributions**

**Rafif, Danielle, and Maha interprets the given problems for part 1, create and optimize a decision table testing. Maha and I create a state table based on a state diagram and build test cases from the state table. Danielle review the two parts and Pranay wrote the Project report.**

1. **Honor pledge**

**I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination. I further pledge that I have not copied any material from a book, article, the Internet or any other source except where I have expressly cited the source.**

1. <https://github.com/Malidrisi/SSW567-MRD/blob/master/StateDiagramandStateTable.pdf>