|  |  |
| --- | --- |
| Name: | Edward Eisenberger |
| ID#: | 1066164 |
| Assignment 5 | |
| Due Date: | April 15, 2019 |
| Date of Submission: | April 15, 2019 |

Table of Contents

[Part A 3](#_Toc2189928)

[Part B 3](#_Toc2189929)

[Part C 3](#_Toc2189930)

[Part D 3](#_Toc2189931)

[Part E 3](#_Toc2189932)

[Output 3](#_Toc2189933)

# Part A

Part A of assignment 5 consisted of studying the C# implementation of a deep CNN provided by the CNNByAMParallel zip file available on the course site.

# Part B

## Overview

Part B of assignment 5 consisted of implementing a deep CNN in python, using the C# implementation as reference. The implementation was trained using 1000 images from the MNIST dataset for 100 epochs, then tested on 10,000 images from the MNIST dataset.

## Output

The following image shows the output of the training and testing. The final accuracy was computed to be 98.22%.

