University of Tripoli Department of Electrical and Electronic Engineering Spring 2025

EE569

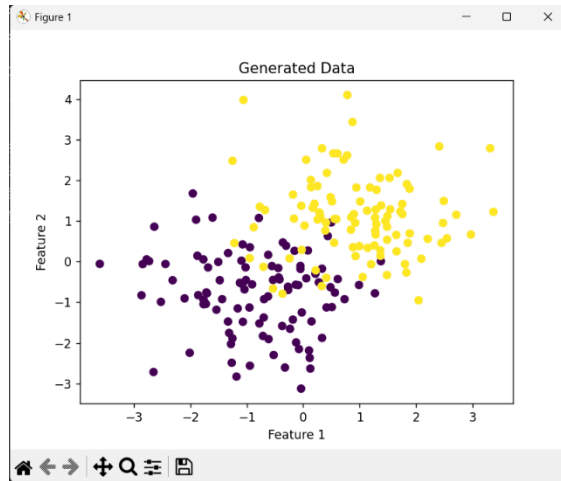# Homework Assignment 1
PART A-Results

نسيبة عمر بن زاهية

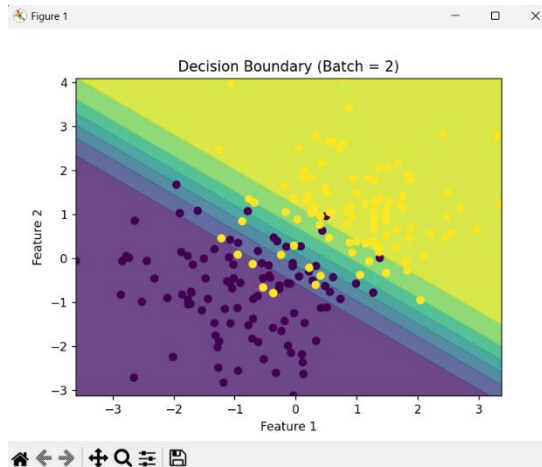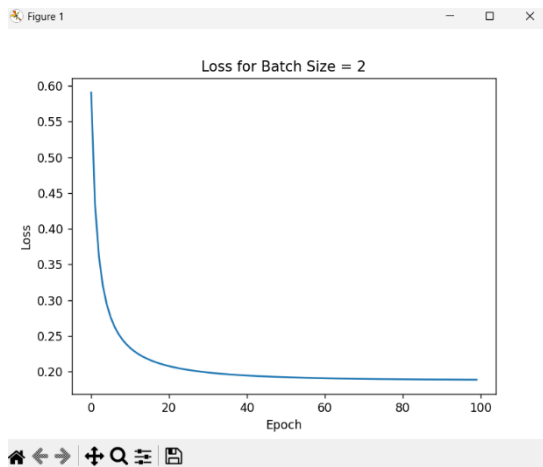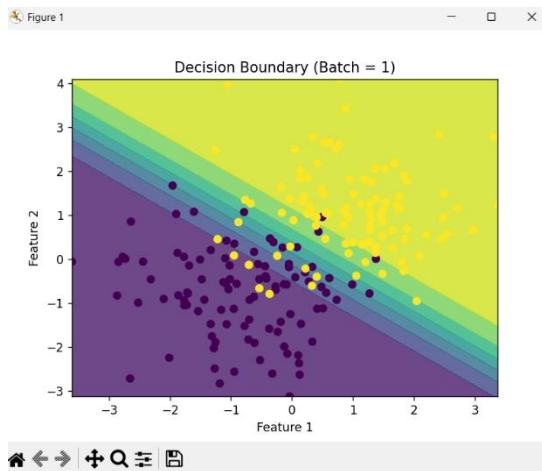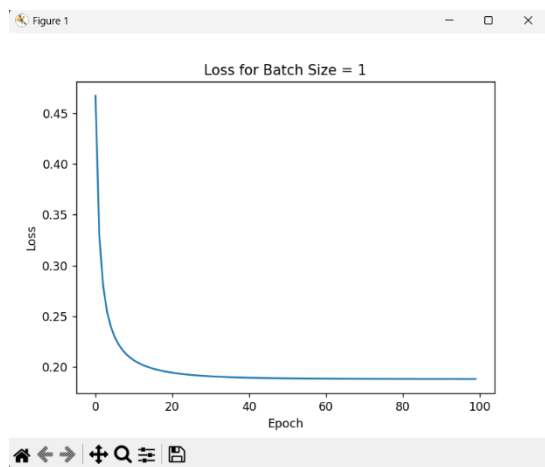**2200209233**

Dr. Nuri BenBarka

Generated Dataset:

Effect of Batch Size on Model Training Performance:

Loss for Batch Size = 4

Decision Boundary (Batch = 4)

Loss for Batch Size = 8

Decision Boundary (Batch = 8)

Loss for Batch Size = 16
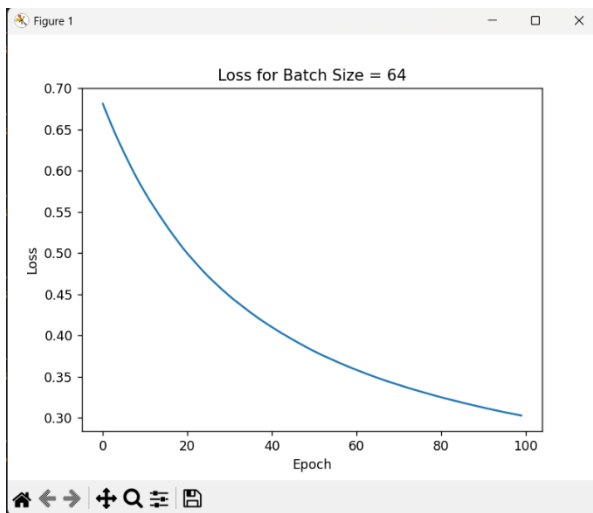

Decision Boundary (Batch = 16)

Loss for Batch Size = 32

Decision Boundary (Batch = 32)

Loss for Batch Size = 64

Decision Boundary (Batch = 64)

Loss for Batch Size = 200

Decision Boundary (Batch = 200)
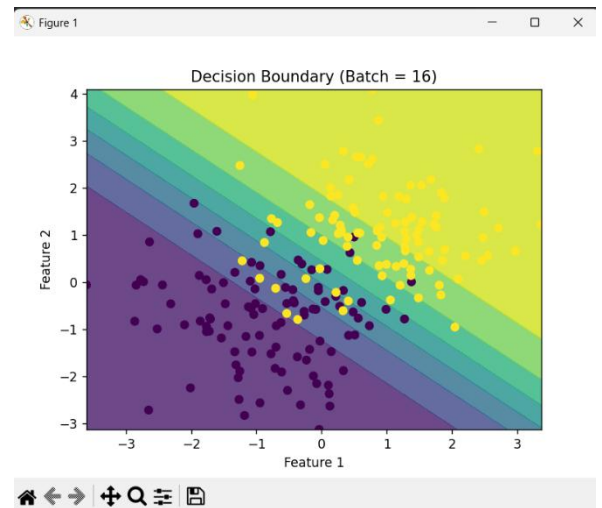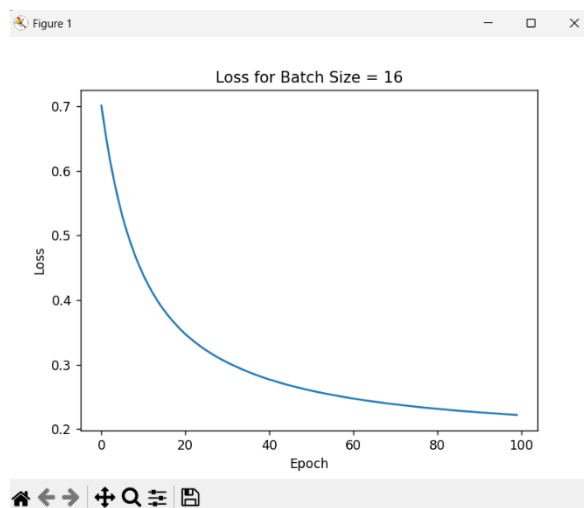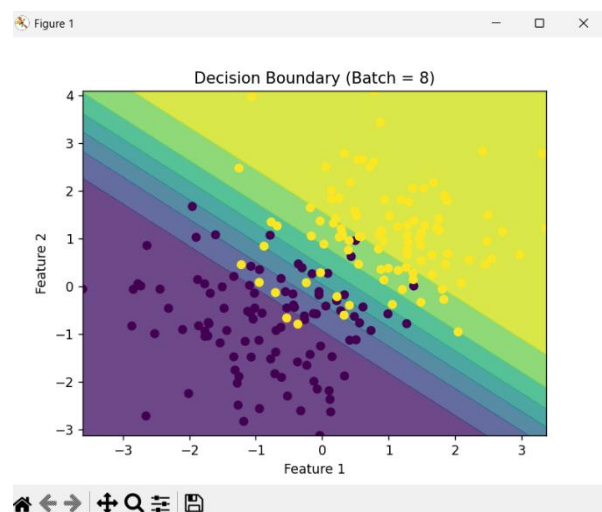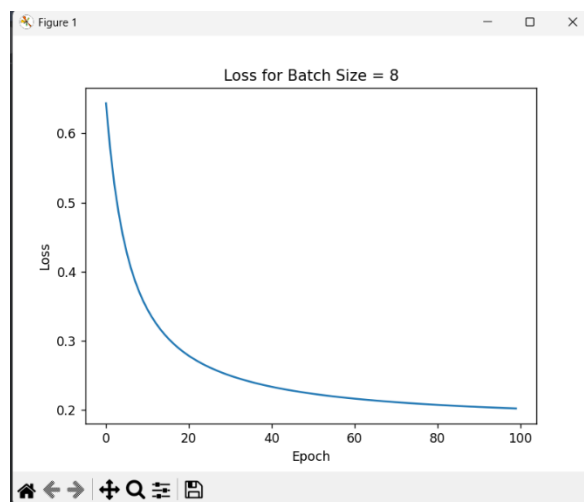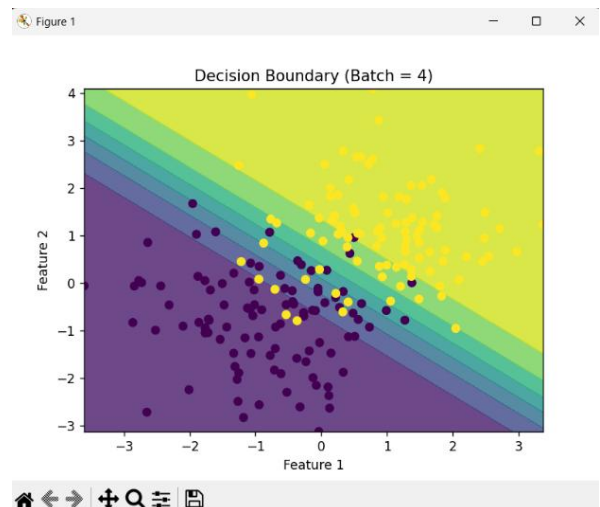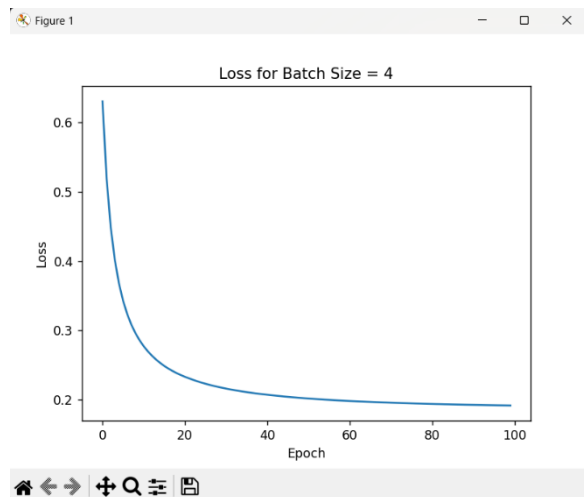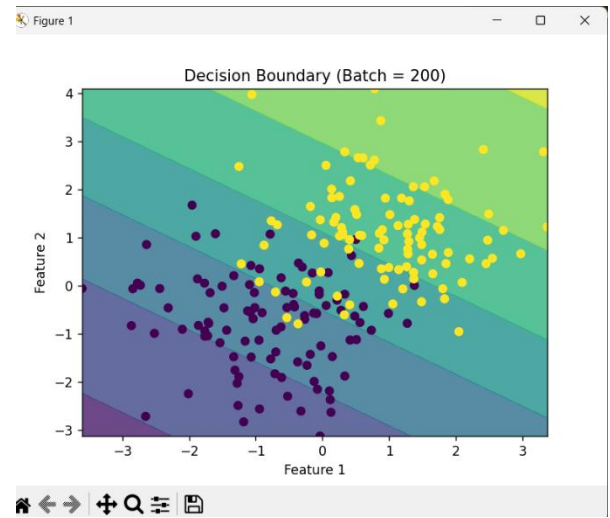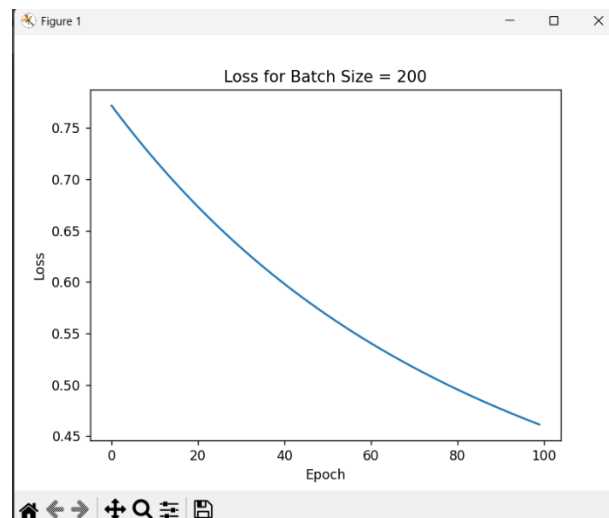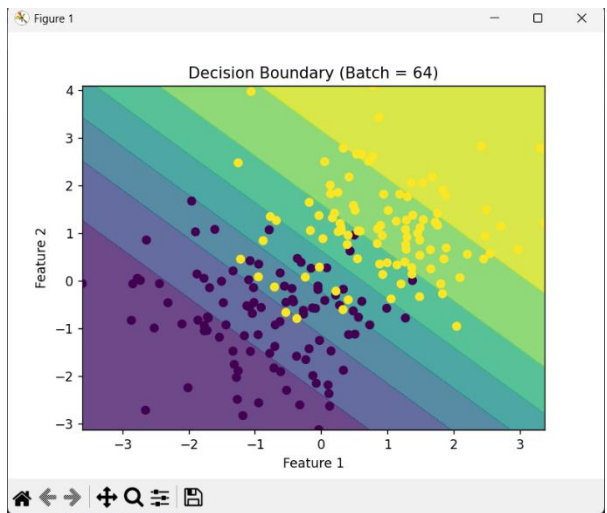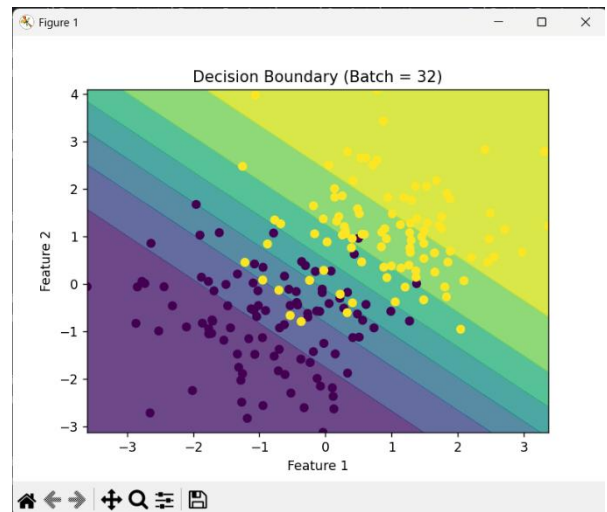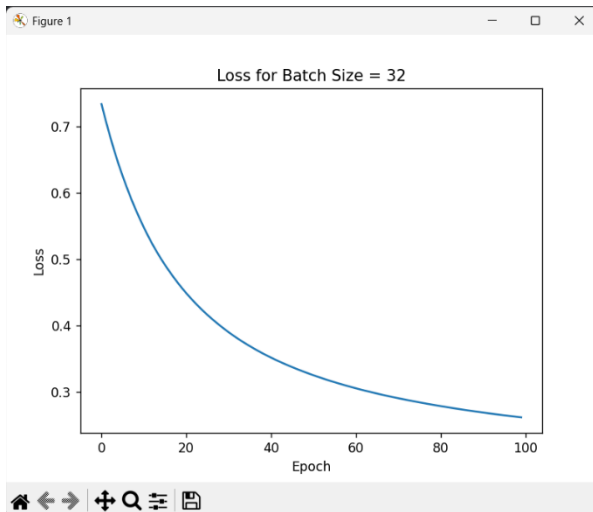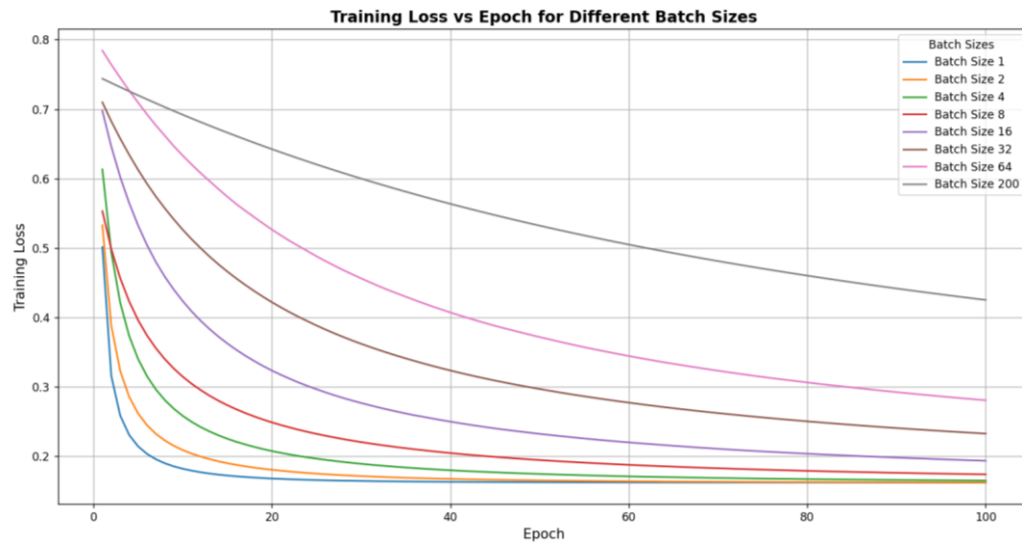
Numerical Results of Loss and Accuracy for Each Batch Size: