**Classwork 10**

**Assignment 1:**

**Gradient Descent**

Implement Gradient Descent algorithm and test it on a function:

In the section where and sample rate of 1kHz. Choose a random starting point using uniform distribution.

Plot the graph which shows the process step by step.

**Assignment 2:**

**Binary Logistic Regression Part 1**

Data Preparation:

Download the data from moodle. Load Test Data and Train Data as well as their Labels. Reconstruct the Data by reshaping the images into row vectors and creating a matrix where each row is a different image. Prepare a corresponding Label vector. Select two number types and create a matrix consisted only of these two number types. Adjust new Label vector so that number types will be labeled either 0 or 1.