Overview:
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Implementation of logistic regression using Iterative Reweighted Least Squares to fit a line or a second-degree polynomial to a set of training data

Language:
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MATLAB

Commands to run the program:
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logistic_regression <training_file> <degree> <test_file>

The arguments provide to the program the following information:

- The first argument, <training_file>, is the path name of the training file, where the training data is stored.
  The path name can specify any file stored on the local computer.
- The second argument, <degree> is a number equal to either 1 or 2. We will not test your code with any other values.
  The degree specifies what function Ï† you should use. Suppose that you have an input vector x = (x1, x2, ..., xD)T,.
    > If the degree is 1, then Ï†(x) = (1, x1, x2, ..., xD)T.
    > If the number is 2, then Ï†(x) = (1, x1, (x1)2, x2, (x2)2..., xD, (xD)2)T.
- The third argument, <test_file>, is the path name of the test file, where the test data is stored. The path name can
  specify any file stored on the local computer.