Problem 2 of Take Home Exam #2

The data set diabetes.mat contains three arrays: X1, X2 and Y1.

X1: 8x384 training set features

X2: 8x384 test set features

Y1: class labels: 0 for healthy, 1 for diabetes

Design a classifier using the training set (X1, Y1) and use it to predict the labels Y2 for the test set X2.

For your information, the following is the list of features.

1. Number of times pregnant

2. Plasma glucose concentration

3. Diastolic blood pressure (mm Hg)

4. Triceps skin fold thickness (mm)

5. 2-Hour serum insulin (mu U/ml)

6. Body mass index (weight in kg/(height in m)^2)

7. Diabetes pedigree function

8. Age (years)