Assignment 2 (Knowledge Discovery and Data Mining)

Number of problems/points: Six problems for total of 100 points
Out: February 04, 2016
Due: February 11, 2016 in class (hard copy).

Problem 1: (20 points)
Solve exercises 7 and 8 in section 2. in the textbook (page 61).

Problem 2: (20 points)
Solve exercise 9 in section 2. in the textbook (page 61).

Problem 3: (10 points)
Perform the Principal Components Analysis (PCA) to reduce real valued attributes of dataset given in Adults database of Homework 1.
(you can use PCA code of your choice in a programming language of your choice, but reference the source).
Report maintained variance when applying PCA to reduce to n-1, n-2, …, 1 attributes.

Problem 4: (20 points)
Solve exercise 2 in section 3. in the textbook (page 90).

Problem 5: (20 points)
Solve exercise 6 in section 3. in the textbook (page 90).

Problem 6: (10 points)
Solve exercise 15 in section 3. in the textbook (page 91).