Advanced Spreadsheets and Decision Support Systems

**Computing Session**

**Exercise 1**

Write a sub that creates an array called *day* of size 7 and then populates it with the days of the week: Monday, Tuesday and so on. It then loops through this array and writes its elements to the range A1:G1 of the first worksheet.

**Exercise 2**

Write a sub that creates a two-dimensional array *monthInfo* of size 12 by 2. It then populates the array with the months January, February etc. and the number of days in these months. Specifically, the first dimension should contain the month and the second should contain the number of days in the month. For example, *monthInfo(6,1)* should be June and *monthInfo(6,2)* should be 30. Use nested loops to fill the range C1:D12 with the content of this array (Note: you will need to declare this array as Variant because it contains two different types of data, strings and integers).

**Exercise 3**

A company keeps a spreadsheet of each sales transaction it makes. These transaction data, sorted by date, are listed in columns A to C of the **ProductSales.xlsm** file. Each row shows the four digit code of the product sold, plus the date and dollar amount of the transaction. Periodically, the company wants to know how many separate products have been sold, and it wants a list of all product sold, the number of transactions for each product sold, and the total dollar amount for each product sold. It wants this list to be placed in columns E to G, and it wants the list to be sorted in descending order by dollar amount. Write a VBA program to do so, using arrays. Your program should work even if the lists in columns A to C change.