## WIX1002 Fundamentals of Programming Semester 1 2015/2016 Tutorial 7 File Input and Output

- 1. Write statements for each of the following
  - a. Store ten random integers within 0 to 1000 to a text file name integer.txt.
  - b. Read from the text file generated in a. Display all the integer and the largest integer.
  - c. Store ten random integers within 0 to 1000 to a binary file name integer.dat.
  - d. Read from the binary file generated in a c. Display the all the integer and the average.
  - e. Initialized a 3 by 4 matrix as below. Store the matrix to a text file name matrix.txt.

$$\begin{pmatrix} 8 & 10 & 4 & 9 \\ 9 & 2 & 5 & 2 \\ 6 & 7 & 2 & 6 \end{pmatrix}$$

2. Correct the error for the following statements.

```
a. PrintWriter
                   out
                                 new
                                          PrintWriter(new
                                                               FileOutputStream
   ("d:\data\matrix.txt"));
b.
     PrintWriter out = new PrintWriter(new FileOutputStream("data.txt"));
     out.close();
   } catch (FileNotFoundException e) {
     System.out.println("Problem with file output");
c.
   int num;
   Scanner a = new Scanner(new FileInputStream("data.dat"));
   num = a.readInt();
   a.close();
d.
   ObjectOutputStream  
                                                  ObjectOutputStream  
                                         new
                                                                            (new
   FileOutputStream("data.dat"));
   o.print('A');
   o.close();
```

3. Write the statements that store the table below in a binary file name course.dat.

<b>Course Code</b>	Course Name
WXES1116	Programming I
WXES1115	Data Structure
WXES1110	Operating System
WXES1112	Computing Mathematics I

4. Write the statements that accepts the course code from the users and display the course name from course.dat.