

## WIX1002 Fundamentals of Programming

### 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.
  
2. Correct the error for the following statements.
  - a. 

```
PrintWriter out = new PrintWriter(new FileOutputStream("d:\data\matrix.txt"));
```
  - b. 

```
try {
    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 o = new ObjectOutputStream (new
FileOutputStream("data.dat"));
o.print('A');
o.close();
```
  
3. Write a program that convert a sentence into binary number (ASCII code 8 bit) and store it in a text file named data.txt. Then, read from the text file and display the sentence.