Montgomery College, CMSC 203
Worksheet 1
Module 11

Objectives

- File I/O
- Exceptions
-

Concept Questions

1. Modify the following code to protect it from crashing if the user enters an input that is not a number:

```java
import java.util.Scanner;
public class ReadIntegerStrings
{
	//-------------------------------------------------------------
	//  Reads strings and converts them to integers, catching invalid
	//  integers. Continues until 10 valid strings are read.
	//-------------------------------------------------------------
	public static void main (String[] args)
	{
		final int MAX = 10;
		String input = "";
		int count = 1, num;
		double sum = 0;
		Scanner scan = new Scanner (System.in);
		do
		{
			System.out.print ("Enter integer " + count + ": ");

			input = scan.nextLine();

			num = Integer.parseInt(input);


			sum = sum + num;


			count++;


			//System.out.println("INVALID INTEGER. Please reenter.");

		}while (count <= MAX);

		System.out.println("Average: " + sum/MAX);
	}
```

```
}
```

2) What do you think the following code does?

```java
import java.util.Scanner;
import java.io.*;

public class UserStringWriter
{
    public static void main (String[] args) throws IOException
    {
        Scanner scan = new Scanner(System.in);
        String fileName = "userStrings.txt";
        PrintWriter outFile = new PrintWriter(fileName);

        String input = "";

        do
        {
            System.out.print ("Enter a string: ");
            input = scan.nextLine();
            if (!input.equals("DONE"))
                outFile.println(input);
        }
        while (!input.equals("DONE"));

        outFile.close();
        System.out.println ("Output file has been created: " +
    fileName);
    }
}
```

3) Copy the code in question 2 and try it on Eclipse. Does the code run? How can you fix it.