**BSc (Hons) – 1st Year**

**Programming: Object-Oriented Approach**

**Homework Exercises 1**

1. Create a new Project called whoAreYou. Add a class. Write a piece of code that will prompt the user (i.e. output a question) for their name. Read in the name using BufferedReader and output a message saying: “Oh, that is a very nice name, *<user name goes here>*”
2. Now do the same thing as Q2, except use Scanner (make another new project, so you can compare the two afterwards!)
3. Create a new project. Ask the user TWO questions (one at a time) and each time read in the user’s answer

Q1: What is your quest?

Q2: What is your favourite colour?

Output a message saying: “Ah, I see your quest is to *<user quest goes here>,* and your favourite colour is *<user colour goes here>”.*

1. Using either of programs you wrote for 1, 2 or 3 try entering nonsense/something you would not expect. Try numbers, strange characters, etc. and see what happens in each case.

Is it different if you use BufferedReader vs Scanner? What is the difference (if any)?

1. Write a program using a Scanner that will ask the user to enter 2 numbers (separately). Then add the two numbers together and output a message saying “The sum of *<first number>* and *<second number>* is *<answer>”*
2. Now do the same as Q6 except use BufferedReader instead. Keep it as a separate project! What did you need to change?
3. What do you think you would have to change to do subtraction, multiplication or division?