

Programming 1 Week 1 Exercises

The first thing for you to do is to become familiar with the process of creating, modifying, compiling and running programs in Java. Look again at the handout and check out:

- How you create a Java program?
- How you compile a Java program?
- How you run a Java program?

Create a folder called “Programming1” on your U: drive if you have not already done so. Create a folder called “Week1” within the “Programming1” folder if you have not already done so.

1. Create a program with the following contents and save it in the “Week1” folder as `Welcome`, the system will add the `.java` extension. Note that the name of the file without the `.java` extension must be the same as the name of the class — even the case of the letters must be the same. If not Java will complain!

```
// Welcome.java : Prints a welcome message on the screen
// your name      and the date
public class Welcome
{
    public static void main(String args[])
    {
        System.out.println("Welcome to Java!");
    }
}
```

2. Compile and run the program. Are the results what you expected?

3. Change the word `main` so it reads `Main`. Now compile and run the program again. What happens? Ask the lab tutor if you are not sure.

4. Now that you know what this program does, create a program with a class called `Exercisel` in an appropriately-named file to display the message:
`Welcome to the British School`

5. Write a program to display the following message, exactly as shown:

```
Welcome to
School of Computing
British School of Beijing
```

6. Write a program to display your first name on the screen by drawing the individual letters using the same letters on a 5×5 grid. Example:

```
DDD  AAA V  V  IIIII DDD
D  D A  AV  V  I  D  D
D  D AAAAV  V  I  D  D
D  D A  A V V  I  D  D
DDD  A  A  V  IIIII DDD
```

7. Extract each of the following programs and try to get them working – remember you need to create an empty java application file with the same name as the class name in the code.

```
// Exercise4a.java
// This program prints these comments on the computer screen
// Exercise Tutor 22nd September 2020
```

```
public class Exercise4a
{
    public static void main(String args[])
    {
        System.out.println(Exercise3.java
        This program prints these comments on the computer screen
        Exercise Tutor 22nd September 2020);
        System.out.println();
    }
}
```

```
// Exercise4b.java
// This program prints these comments on the computer screen
// Exercise Tutor 22nd September 2020
```

```
public class Exercise4b
{
    public static void main(String args[])
    {
        System.out.println("Exercise4b.java")
        System.out.println("This program prints these comments on the computer
screen");
        System.out.println("Exercise Tutor 22nd September 2020");
        System.out.println();
    }
}
```