Aim: To become familiar with Java variables, operators, conditional and iteration statements.

1. Open an editor of your choice and type in the following Java program shell:

```java
public class Lab3 {
    public static void main(String[] args) {
    }
}
```

2. Declare two local variables inside the `main` method of type `float` called `fahrenheit` and another called `centigrade`. Compile the program (making sure, of course, that it compiled with no errors.)

3. Write a statement to assign `fahrenheit` a value of 98.6

4. The formula to convert Fahrenheit to Centigrade is
   \[ c = \frac{5}{9} (f-32) \]
   Code this statement in your program.
   Provide output statements that display to the console what *Fahrenheit* and converted `centigrade` degrees are.

5. Now put in a `for` loop that will print the centigrade values of the numbers 0.0, 5.0, 10.0, 15.0, ..., 40.0

6. After the `for` loop, put in a while loop that does the same output as part 5.

Show your work to your lab teacher.