

# Elementary Java Programming Pt. 2

Java Types and Arithmetic Programs

# REVIEW OF LECTURES

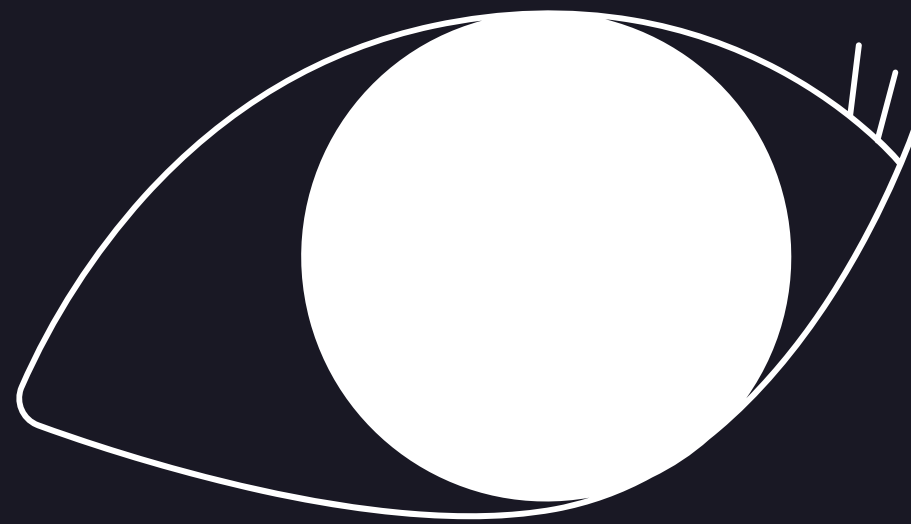
Using the Java Math Class.

My IDE gives me information sometimes?

How do I read that?

Where does this information come from?

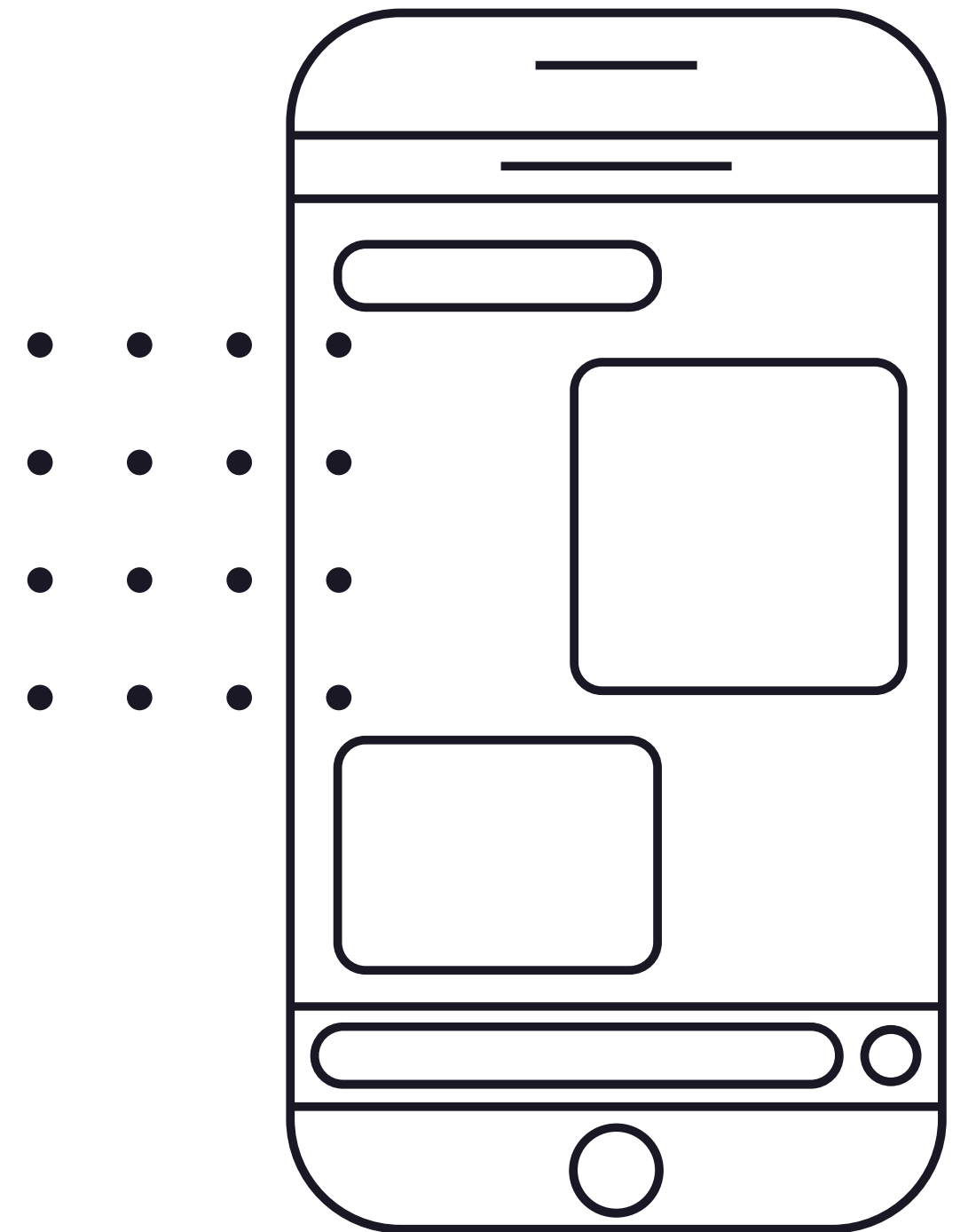
Any other questions from lecture?



**LETS CODE TOGETHER**

# YOU MAY NEED A PROGRAM THAT TELLS YOU THE WEATHER

Yes, I know your computer does  
that already. Play along with me.



I HAVE  
WRITTEN CODE  
TO ACQUIRE  
WEATHER DATA  
FOR  
GREENWOOD.  
BUT THERE IS A  
PROBLEM.



**THE  
TEMPERATURE  
IS IN KELVIN!  
(NO ONE USES  
THAT FOR NON  
EXPERIMENTAL  
USE)**



```
int temp = wp.getTemp();
```

This line (already typed for you) holds the current temperature in Kelvin. Now we move forward.

```
int celsius = temp - 275;
```

The conversion from Kelvin is:

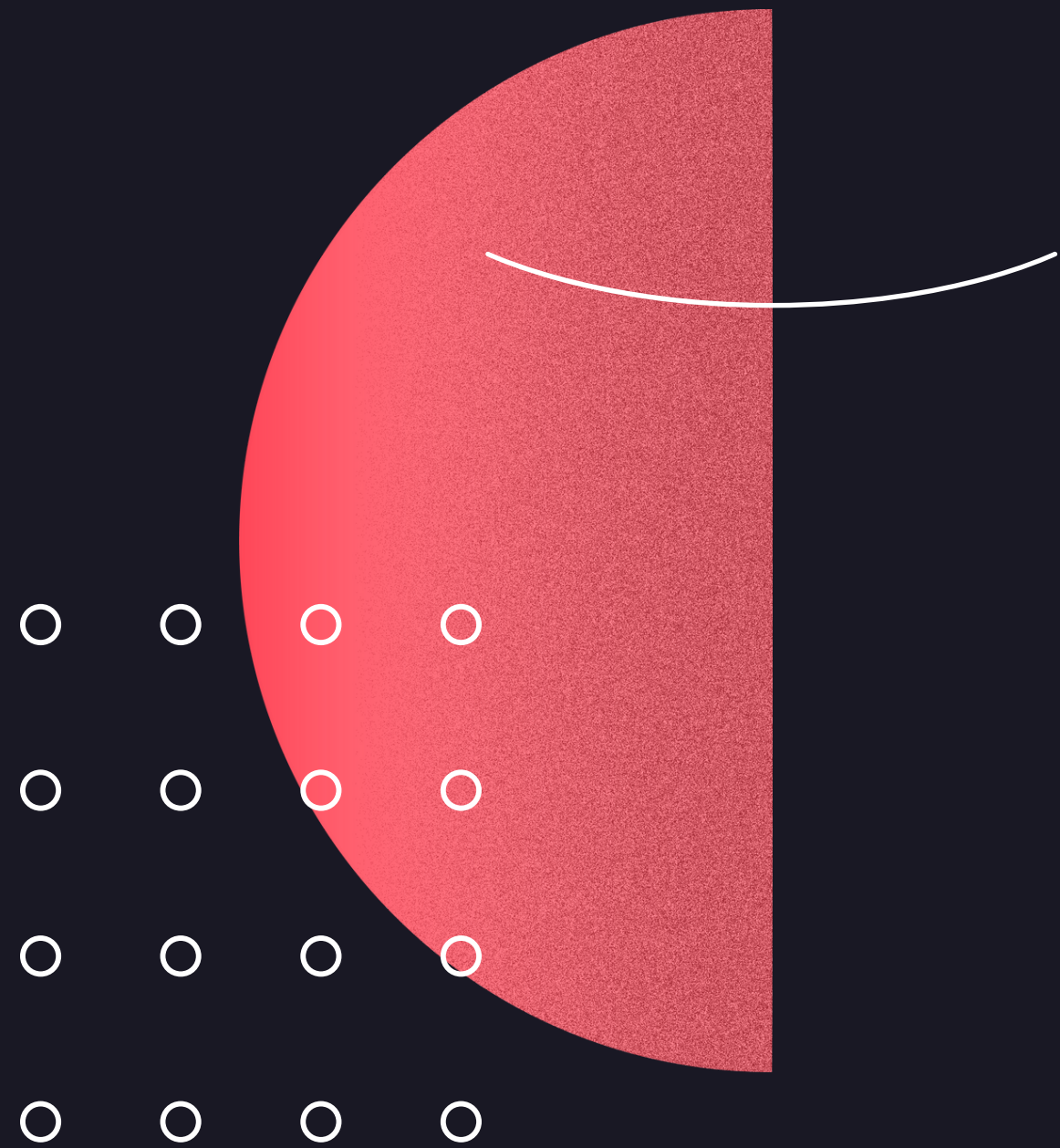
$$K - 275 = C.$$

Now we print this to the user.



```
System.out.println("Fahrenheit is " + ((int) (celsius * 9/5.0) + 32));
```

Here in a single line, I output  
the temperature in F. How  
could you of done it differently?  
What does the (int) do?



**Now you code!**  
**Worksheet of**  
**problems to be**  
**emailed to**  
**you. Please let me**  
**know if you need**  
**help!**