Before your lab session, make sure you have:

- **watched** the WEEK 7 & lecture videos on the **CD/CN4001 Moodle Site** by clicking here
- **logged on** to the live lecture Q&A on **Monday 10-11am** via the **CD4001/CN4001 Teams** site by clicking here.
- When joining the Q&A on Teams, please make sure you click the **Tap-In** button at the top of the **General channel** at 10am (link here):

Then check your timetable to find out the day/time/location of your lab session.

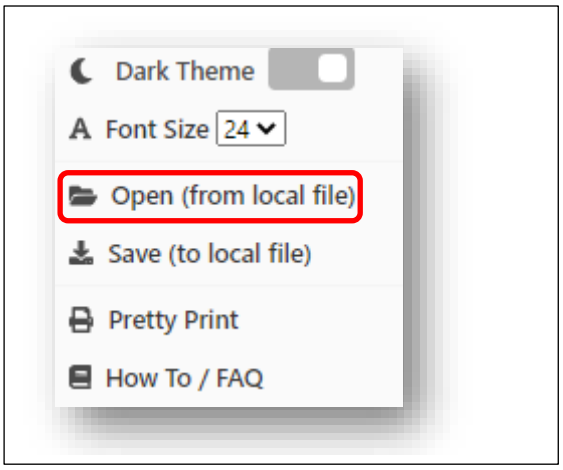
If you have permission from your course leader to study remotely, follow these instructions to access your remote lab (Tuesday 4-6pm):

1. *Go to the ON-LINE LAB (Tue 4-6) channel on your **CN4001/CD4001 Software Development Microsoft Teams** site by clicking here.*
2. *Wait for your tutor to start the lab session. To join the session, click on the "**Join**" button that will appear when your tutor starts the session.*

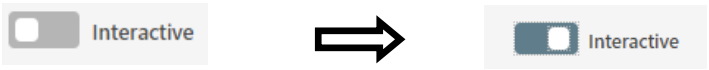
To open the web-based Java IDE called **JDoodle** click here. Go to Moodle/ Teams; download and save the **TemperatureReadingsApp.java** file onto your desktop then:

a) Select the three dots by the **Execute** button:

b) From the pop-up menu select **Open (from local file)** and browse to your **TemperatureReadingsApp.java** file on your machine to open that file in JDoodle



c) To allow for user input slide the **Interactive** slider to the **on** position.



ASSESSED TASK: **4 marks**

For this task we will modify the **TemperatureReadingsApp** program discussed in the lecture and loaded into your IDE following the instructions above.

a) Compile and run this program to make sure it is working.

b) Design and implement a method, **wasHot**, which accepts the temperature array and displays all days that recorded temperatures of 18 degrees or over. Modify the **main** method so that this **wasHot** method is called after the **displayTemps** method.

c) Design and implement another method, **convertToFarenheit**, which accepts the original temperature array and converts each Celsius temperature to Farenheit. The formula for converting Celsius to Farenheit is given below:

Farenheit = (Celsius*9/5) + 32

The **convertToFarenheit** method should then be called from main and then the **displayTemps** method should be called again in the **main** method to display the updated temperatures.

d) Add some comments into this program

e) Download the **TemperatureReadingsApp.java** file from **JDoodle** and upload to **Moodle** via the correct **submission link**.