#### **ON CAMPUS**

# Tap in with your ID card in a UEL lab



#### REMOTE

Click on the Tap in tab in the General channel of the Teams site

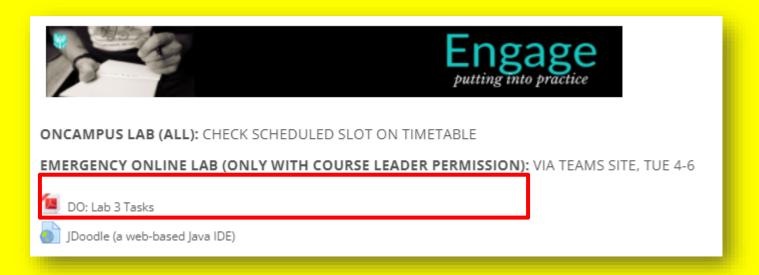
Aaron Kans Tuesday 11:33 AM Added a new tab at the top of this channel. Here's a link.



Tap In



Click on the Week 3 block of your Moodle Site



Open the lab 3 task sheet

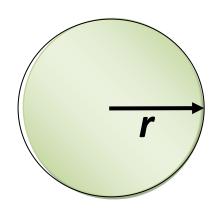
Now, let's tackle today's assessed task (for 4 marks)....

# The Circle Application

diameter = 2r

area =  $\pi r^2$ 

where  $\pi = 3.142$ 



\*\*\* Circle App \*\*\* Enter radius: 4 diameter = 8.0area = 50.272**END OF PROGRAM** 

#### JDoodle Introduction To open the web-based Java IDE called **JDoodle** click here. Online Java Compiler IDE 1 - public class MyClass { public static void main(String args[]) { int x=10; int y=25; int z=x+y; System.out.println("Sum of x+y = " + z); Interactive CommandLine Arguments

Find a link to JDoodle in your worksheet

#### REMOTE



Highlight and delete the code in the main method

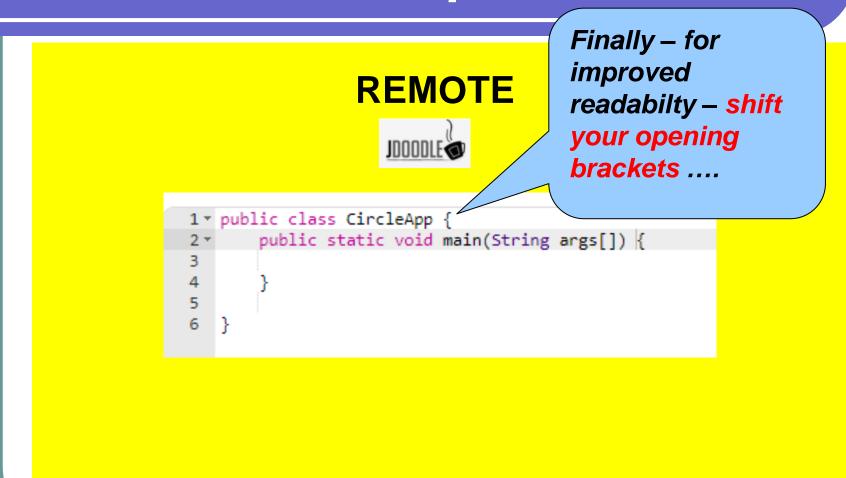
```
1 * public class MyClass {
2 *     public static void main(Stri args[]) {
3         int x=10;
4         int y=25;
5         int z=x+y;
6
7         System.out.println("Sum of x+y = " + z);
8     }
9 }
```

And rename your class CircleApp

#### REMOTE

**JDOODLE** 

```
1 * public class
2 * public static void main(String args[]) {
3     int x=10;
4     int y=25;
5     int z=x+y;
6
7     System.out.println("Sum of x+y = " + z);
8     }
9 }
```



#### **REMOTE**



....to the next line.

#### **REMOTE**



```
public class CircleApp

public static void main(String args[])

f

You can now write

You can now write

You can now write

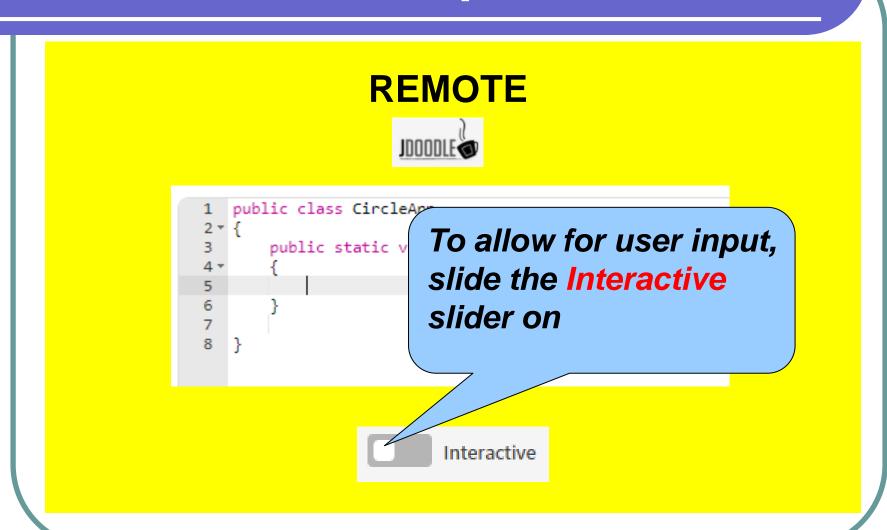
public class CircleApp

public static void main(String args[])

You can now write

You can no
```

You can now write your code in the main method

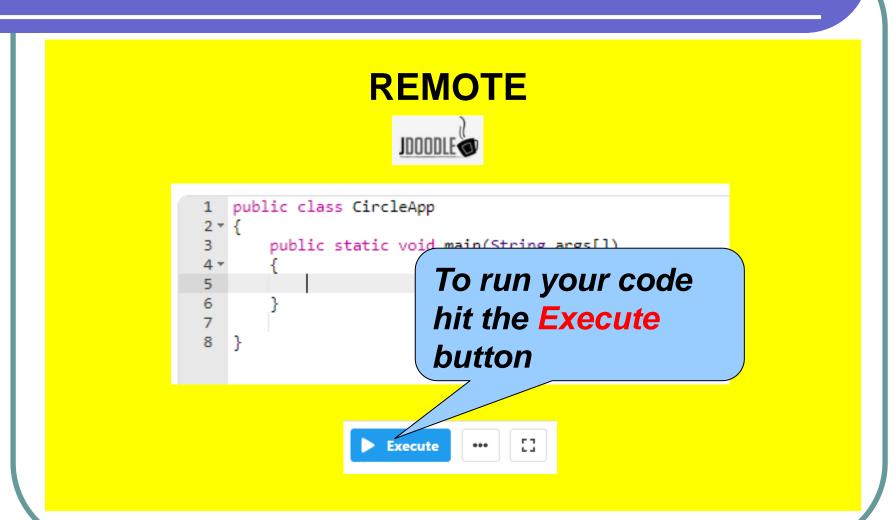


#### **REMOTE**





Interactive



Declare all the necessary variables required for this program (remember the value of  $\pi$  (PI) is a constant) and a Scanner object (call it sc).

YOU HAVE 8 MINUTES!!!



Write code to print a title such as (\*\*\* CIRCLE APP \*\*\*) and the final "END OF PROGRAM" message on the screen. Between these lines add a comment "// CODE TO BE COMPLETED"

YOU HAVE 5 MINUTES!!!







Replace the comment with code to ask the user for the radius of the circle and then enter the radius into a variable.

YOU HAVE 5 MINUTES!!!





\*\*\* Circle App \*\*\* Enter radius: 4 **END OF PROGRAM** 

Write code to calculate and then display the diameter of the circle.

YOU HAVE 5 MINUTES!!!





\*\*\* Circle App \*\*\* Enter radius: 4 diameter = 8.0**END OF PROGRAM** 

Write code to calculate and then display the area of the circle.

YOU HAVE 5 MINUTES!!!





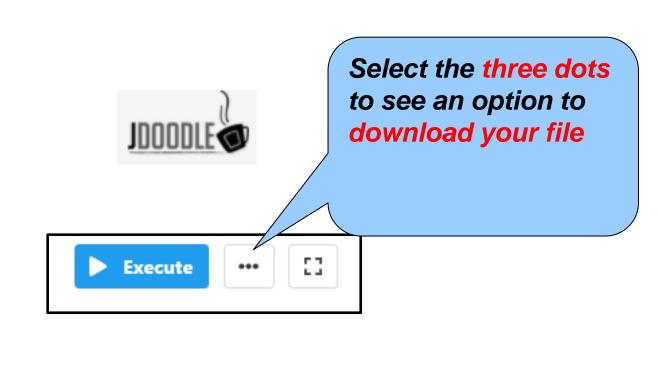
\*\*\* Circle App \*\*\* Enter radius: 4 diameter = 8.0area = 50.272**END OF PROGRAM** 

Add some Javadoc comments at the top of this program

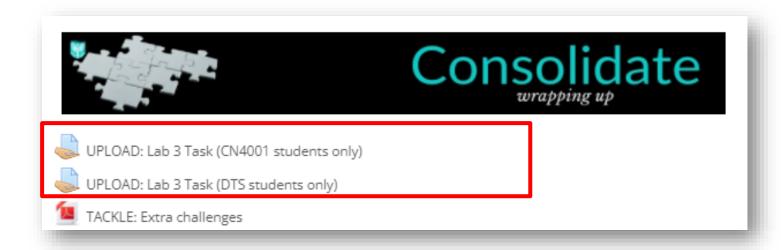
YOU HAVE 5 MINUTES!!!



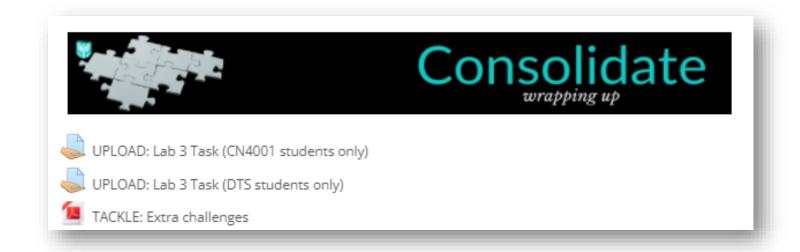




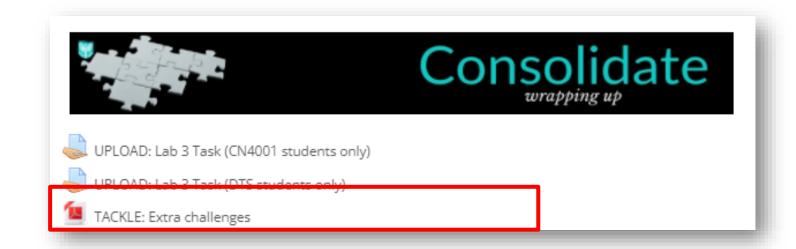




Upload your CircleApp.java file to Moodle so your tutor can check you have completed this task successfully – using the appropriate submission link.



Try and complete this today, but If you don't you will have roughly one week to complete this.



If you want to challenge yourself once you have completed this lab task, tackle the extra challenges!