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



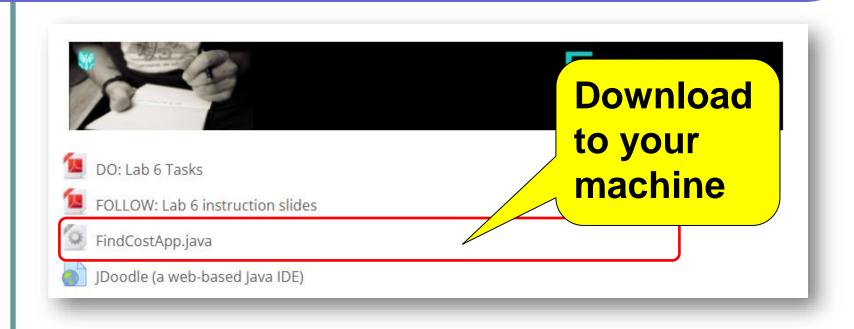
Click on the Week 6 block of your Moodle Site



Open the lab 6 tasks/instruction slides

NOW – let's tackle this topic's practical task.

This week we will return to the FindCost app for adding tax to a product's price.



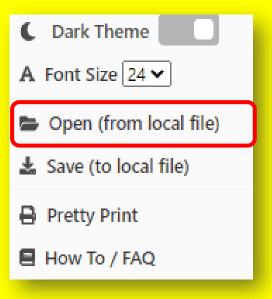


a) Select the three dots by the Execute button.





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



```
1 import java.util.*;
 3 public class FindCostApp
4 - {
      public static void main(String[ ] args )
 5
6 +
           Scanner kbd= new Scanner(System.in);
           double price, tax;
           System.out.println("*** Product Price Check ***");
10
11
           System.out.print("Enter initial price: ");
12
           price = kbd.nextDouble();
13
14
           System.out.print("Enter tax rate: ");
15
           tax = kbd.nextDouble();
16
17
           price = price * (1 + tax/100);
18
19
           System.out.println("Cost after tax = " + price);
20
21
22 }
```



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





```
1 import java.util.*;
 3 public class FindCostApp
      public static void main(String[ ] args )
 6 -
           Scanner kbd= new Scanner(System.in);
 8
           double price, tax:
 9
           System.out.println("*** Product Price Check ***");
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           System.out.print("Enter initial prid
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           price = kbd.nextDouble();
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           System.out.print("Enter tax rate: ");
           tax = kbd.nextDouble();
16
17
18
           price = price * (1 + tax/100);
19
20
           System.out.println("Cost after tax = " + price);
21
22 }
```

We will modify this program in this lab

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

```
*** Product Price Check ***
Enter initial price: 250
Enter tax rate: 12.5
Cost after tax = 281.25
```

b) Re-write this program so that a method, displayTitle, is used to display the title

*** Product Price Check ***

YOU HAVE 8 MINUTES!!!





c) Re-write this program again by using a displayPrice method to display the final cost of the product.

YOU HAVE 10 MINUTES!!!





d) Finally, re-write this program by developing a calculateFinalPrice method. This method should receive the original price and tax rate from the main method and then should calculate, and return back to main, the final price of the product.

YOU HAVE 15 MINUTES!!!



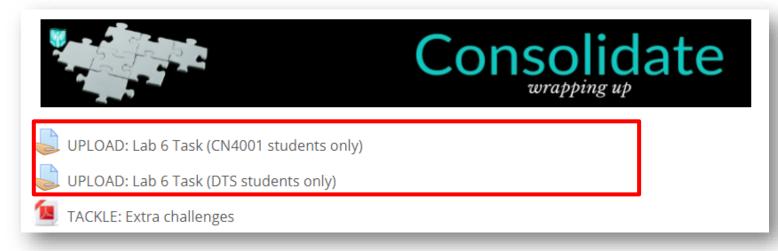


e) Add some Javadoc comments at the top of this program





```
import java.util.*;
/**
        Program to calculate cost after tax
        @author Aaron Kans
        @version 10/10/2020
public class FindCostApp
       public static void main(String[] args)
          // Program code here
```



j) Download the FindCostApp.java file from JDoodle and upload to Moodle via the appropriate submission link.

ASSESSMENT AND FEEDBACK



Your first Module Quiz is also available for you to access this week



Consolidate

Module Quiz 1



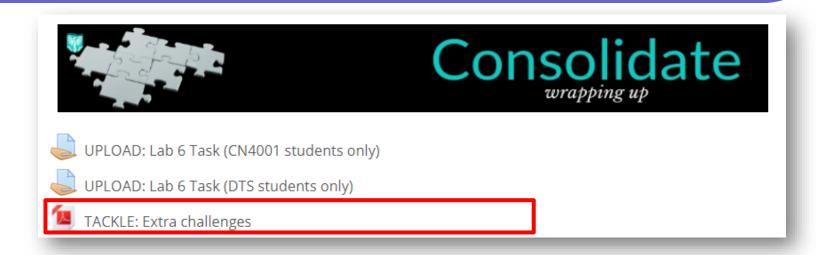
Dr Aaron Kans (a.kans@uel.ac.uk)

- Your first module quiz will be available from 11am on Monday 1st November, covering topics 1 – 6 (see link below).
- The quiz has 10 questions (5 multiple choice questions and 5 short answer questions) and a time limit of 30 minutes to complete.
- You will be able to take the quiz twice (with the highest mark being counted).
 So use the first attempt as your mock attempt.
- You have until Friday 5th November (by 4pm) to complete your quiz attempts.



CN4001 Module Quiz 1 (25 marks)

Available from Monday 1st November (11am) until Friday 5th November (4pm)



Spend the rest of the time in this practical working on the extra challenges.



Also watch the short video on the extra topic of Menu Driven Programs.