

Using the Open function of IntelliJ please Open the ready to use mini project called **java_3_exercise** placed in {course_directory}/lectures_and_materials/java_module_3/exercise

Exercise 1: Measure Converter

Open class **MeasureConvrtter**

That class has not implemented functionality and so you need to finish it

1. define a constant static final variable where defines that 1 mile is 1.60934 km
2. define a constant static final variable where defines that 1 km is 0.621371 miles
3. define a constant static final variable where defines that 1 pound is 0.453592 kg
4. define a constant static final variable where defines that 1 kg is 2.20462 pounds
5. Implements the function so that
 - 5.1. check if the double is greater than 0
 - if less than 0, then write in th console that the input is negative and returns 0
 - if greater than 0, then converts the km passed into miles using the constant defined
6. Implements the function so that
 - 6.1. check if the double is greater than 0
 - if less than 0, then write in th console that the input is negative and returns 0
 - if greater than 0, then converts the miles passed into km using the constant defined
7. same logic as in 6 but for pound to kg
8. same logic as in 6 but for kg to pound
9. make a check if the enteredNumber is between 1 and 4
 - 9.1. If it is between 1 and 4 then make a switch where
 - for 1: calls the convertKmToMiles(enteredNumber);
 - for 2: calls the convertMilesToKm(enteredNumber);
 - for 3: calls the convertPoundToKg(enteredNumber);
 - for 4: calls the convertKgToPounds(convertKgToPounds);
 - 9.2. if it is outside the range in between 1 and 4, then print an error message to the console and that's it
10. Think what we need to do in order to avoid the first check for the range of the enteredNumber in 1 to 4 ?
11. did u use the break clause ?

Exercise 2: Number of Days for a Month

Open class NumberOfDaysInMonth

Write a program which find and prints the number of day for a month and year entered by the user