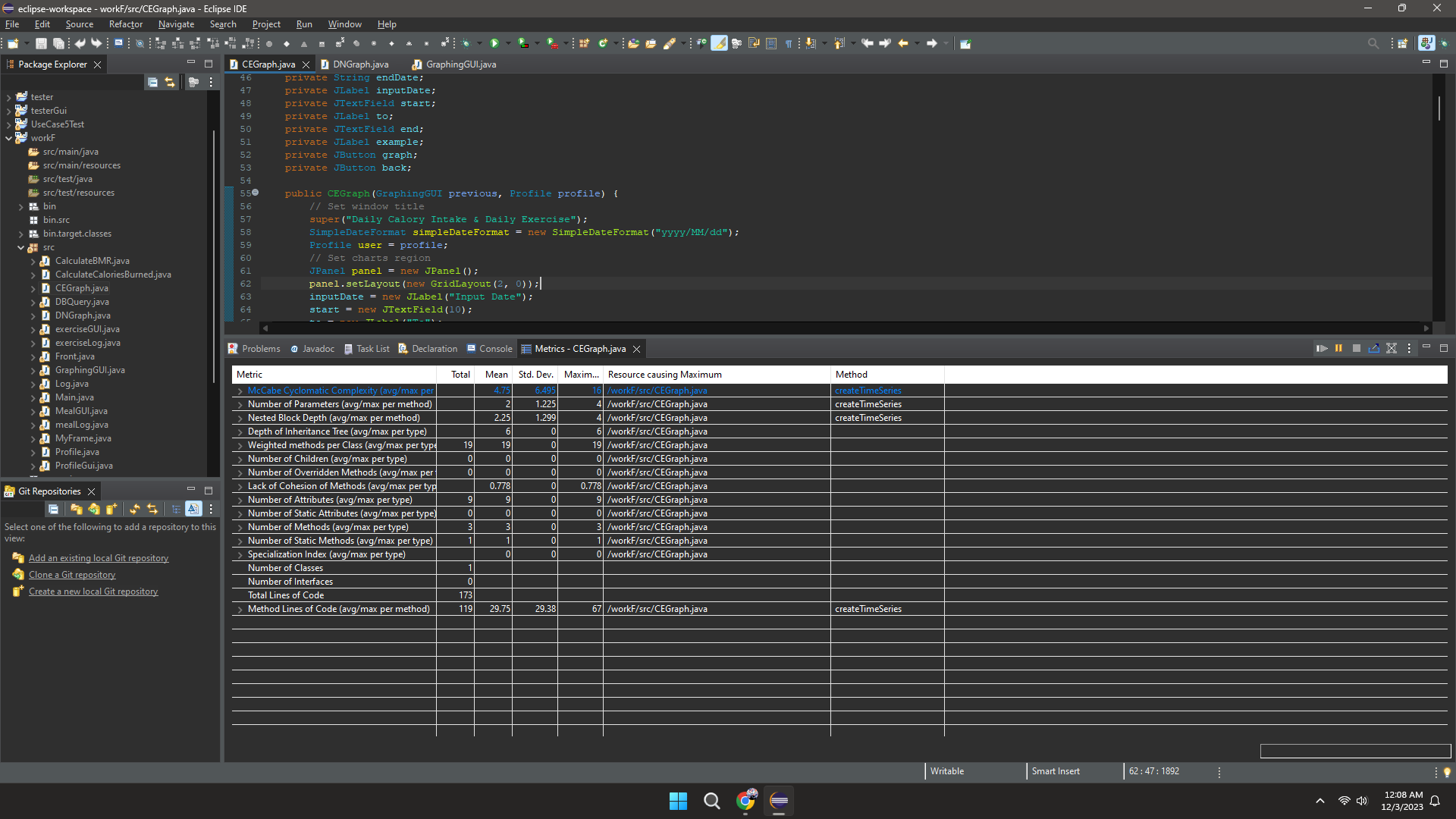
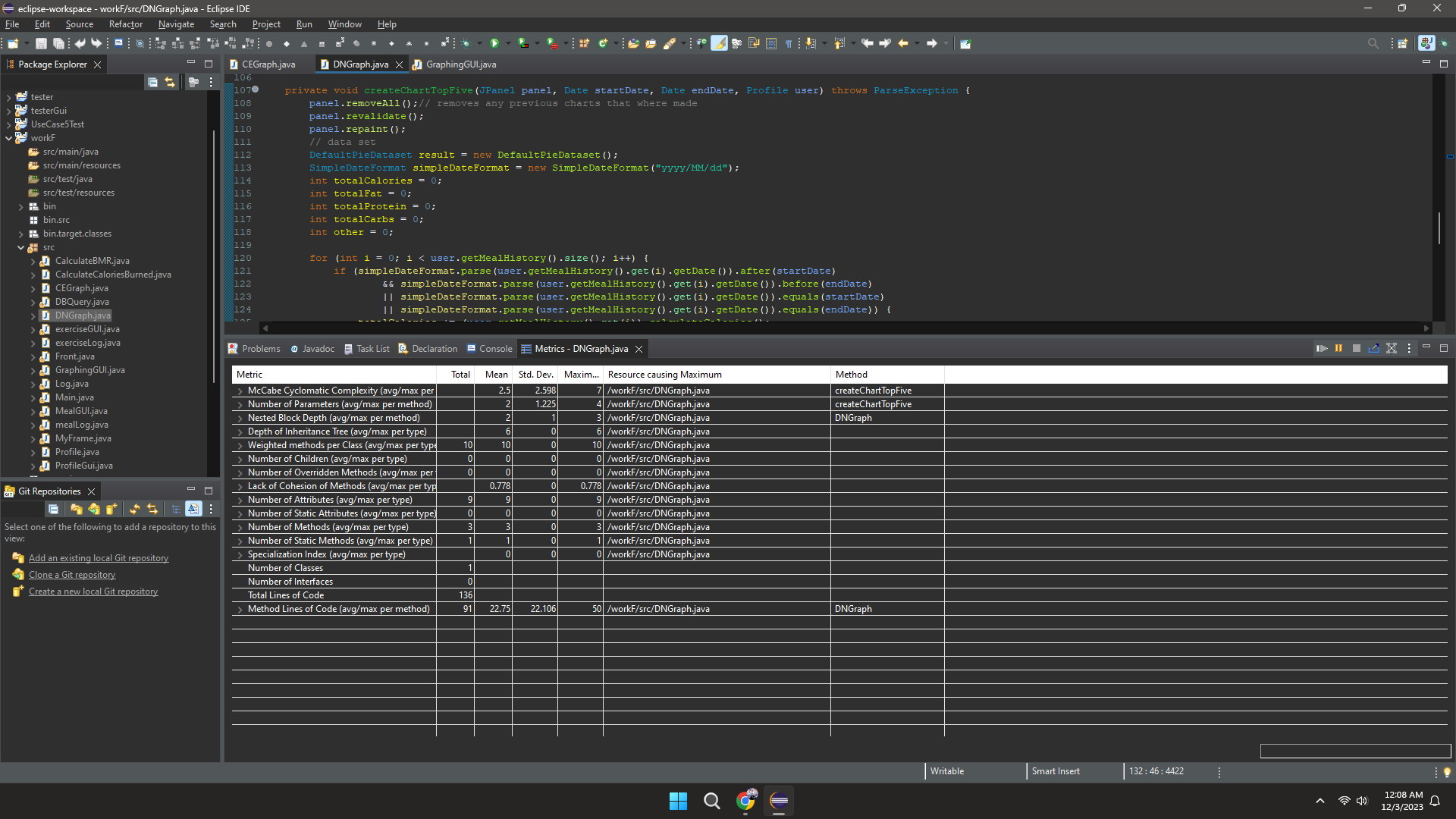
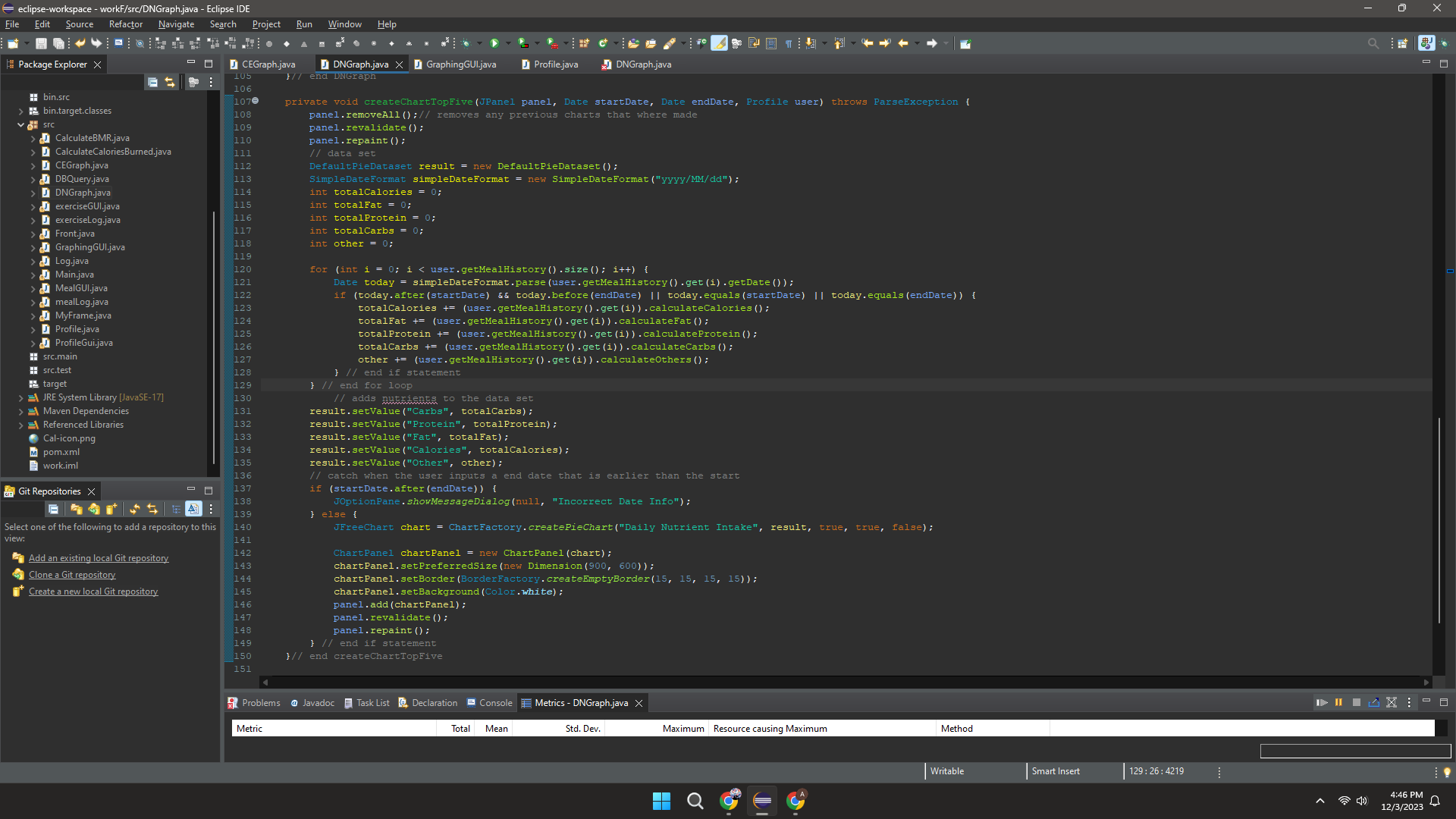
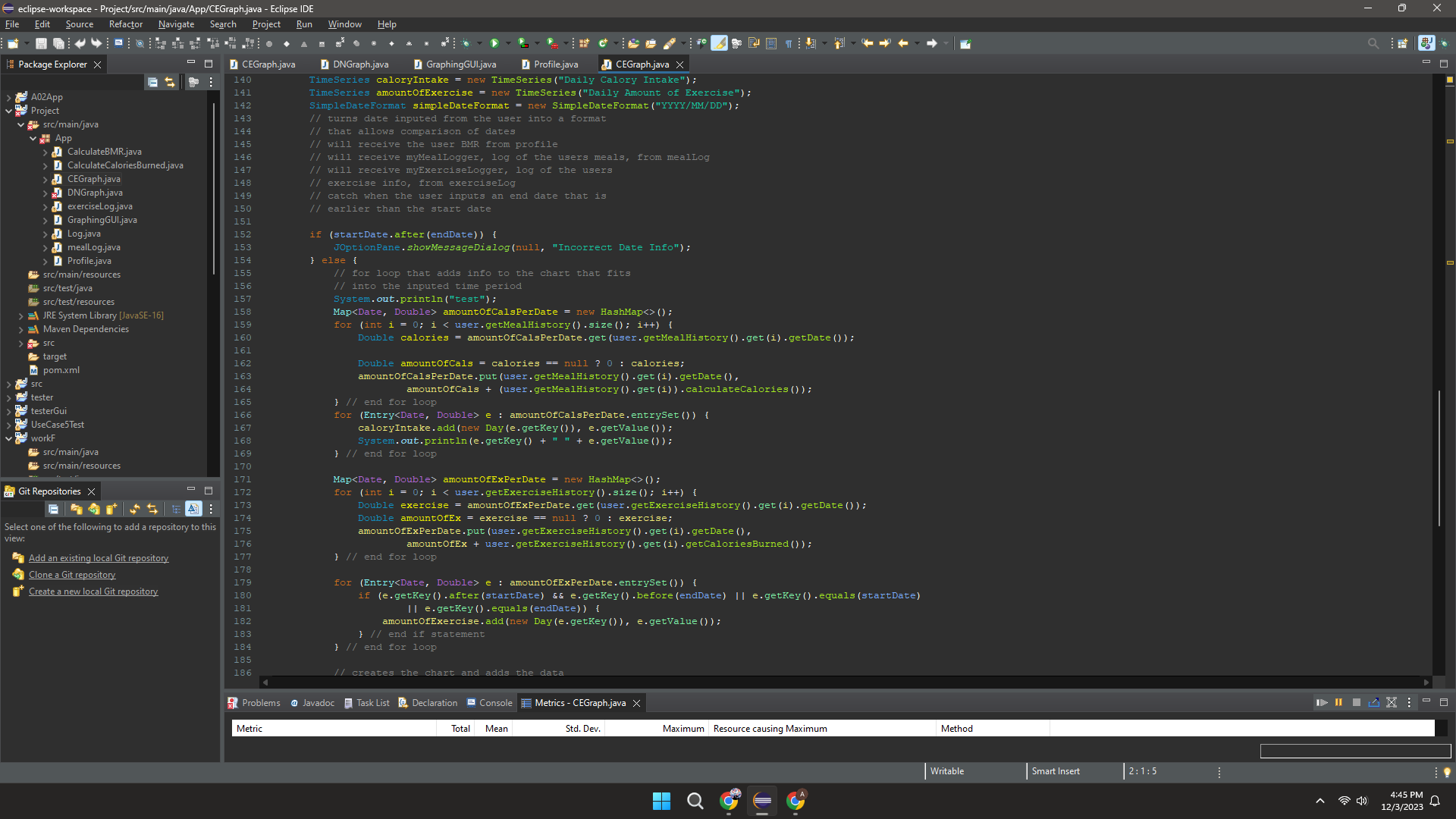
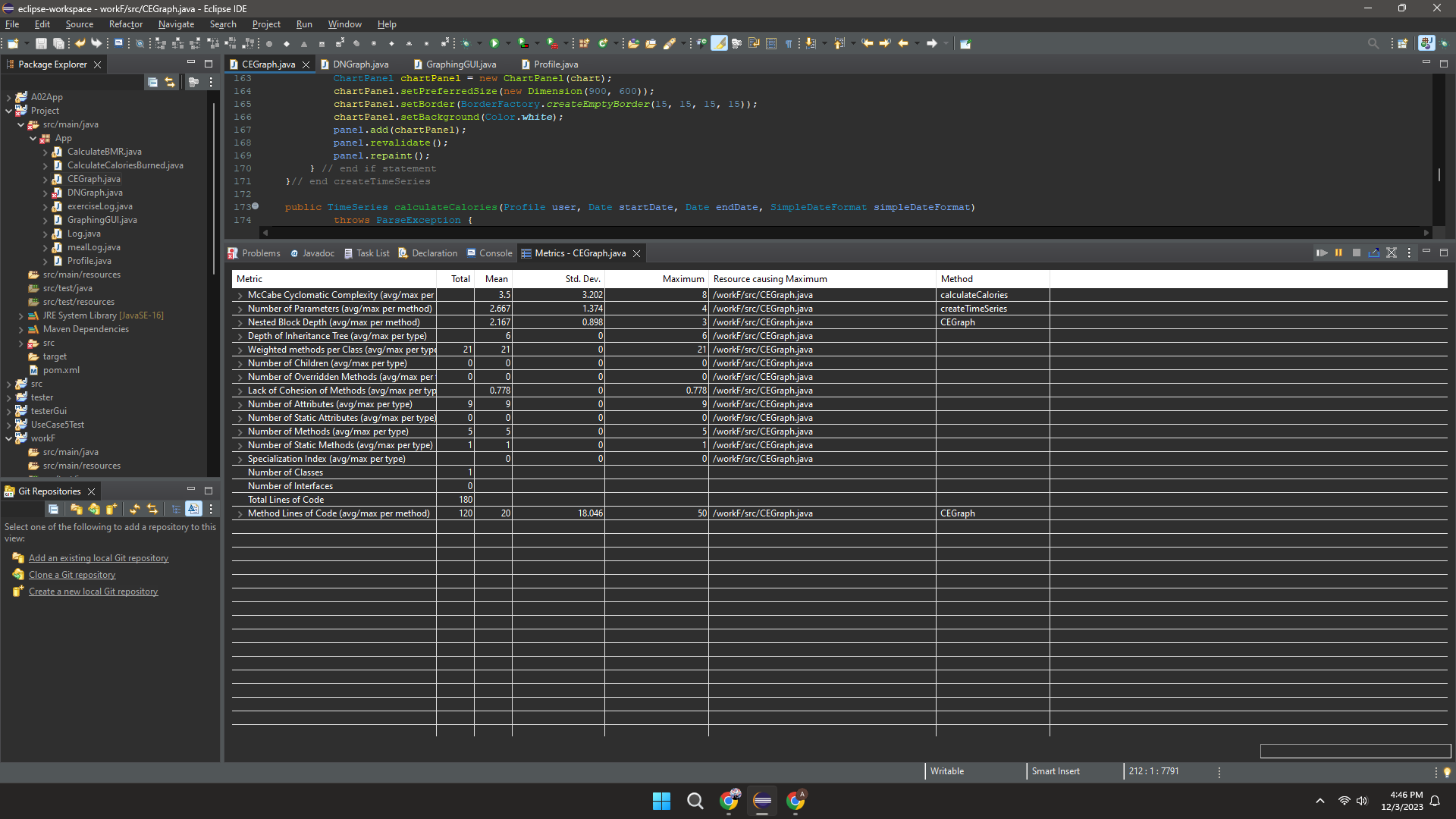
Initial metrics

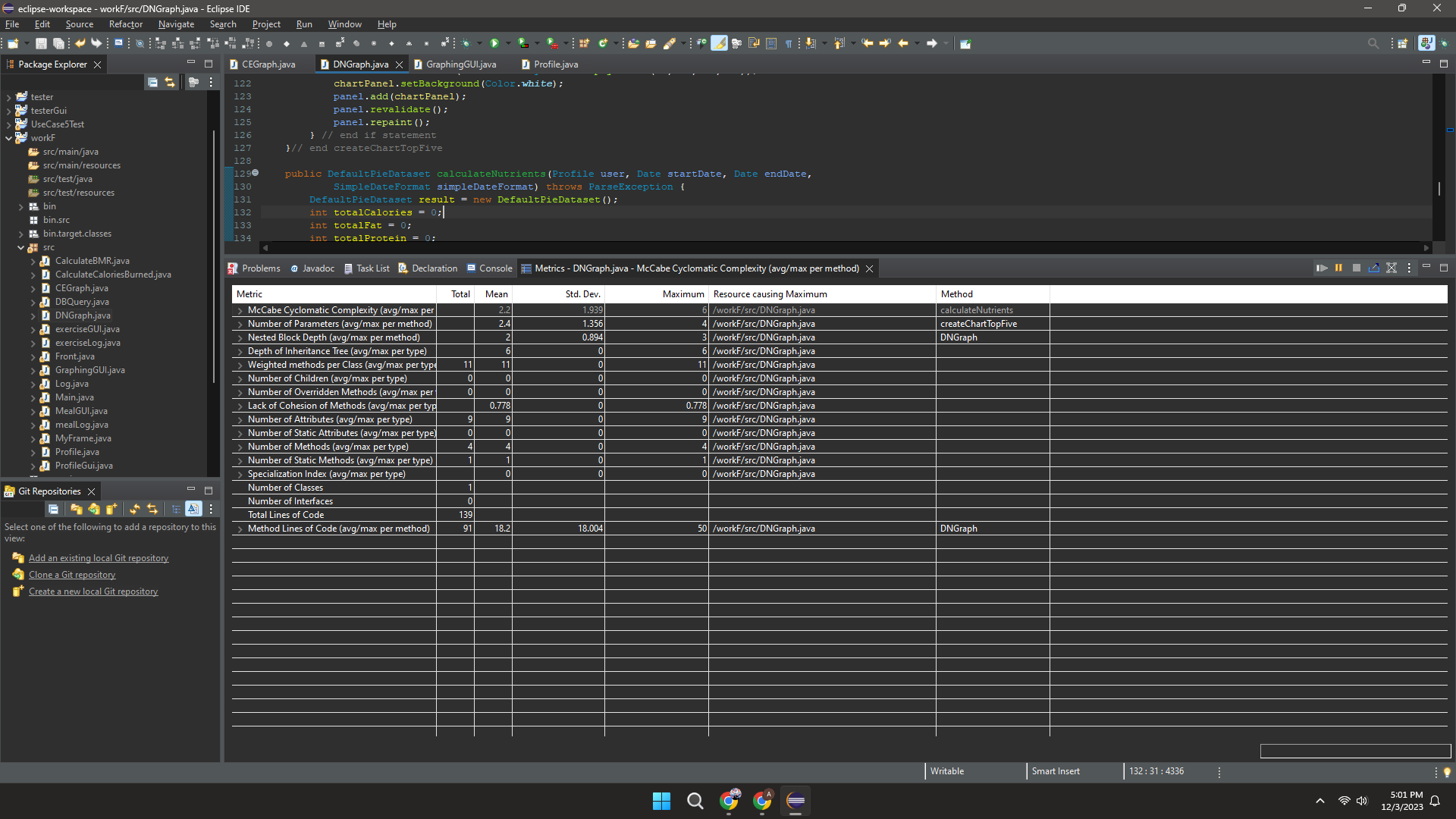


Initial Code

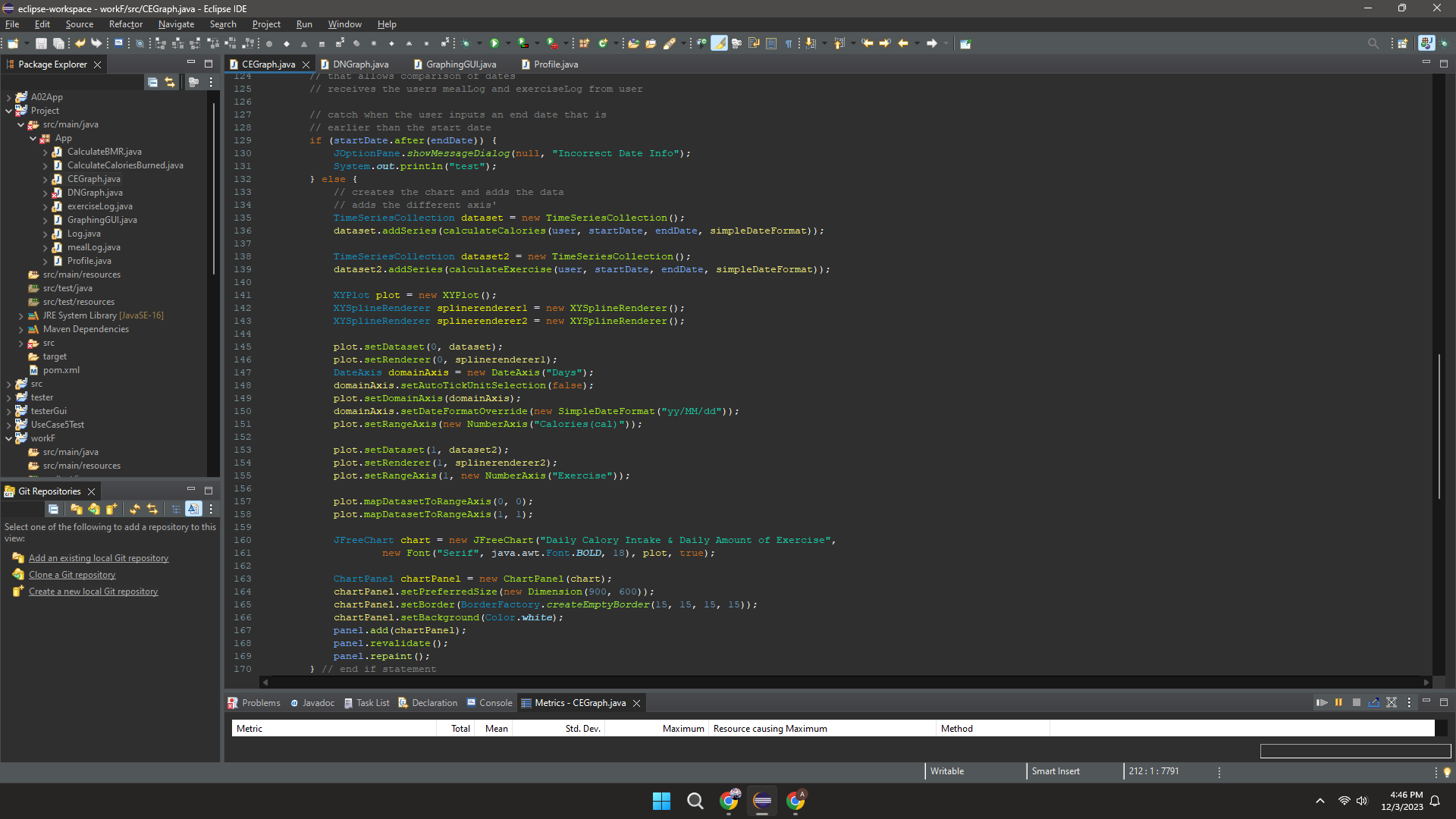


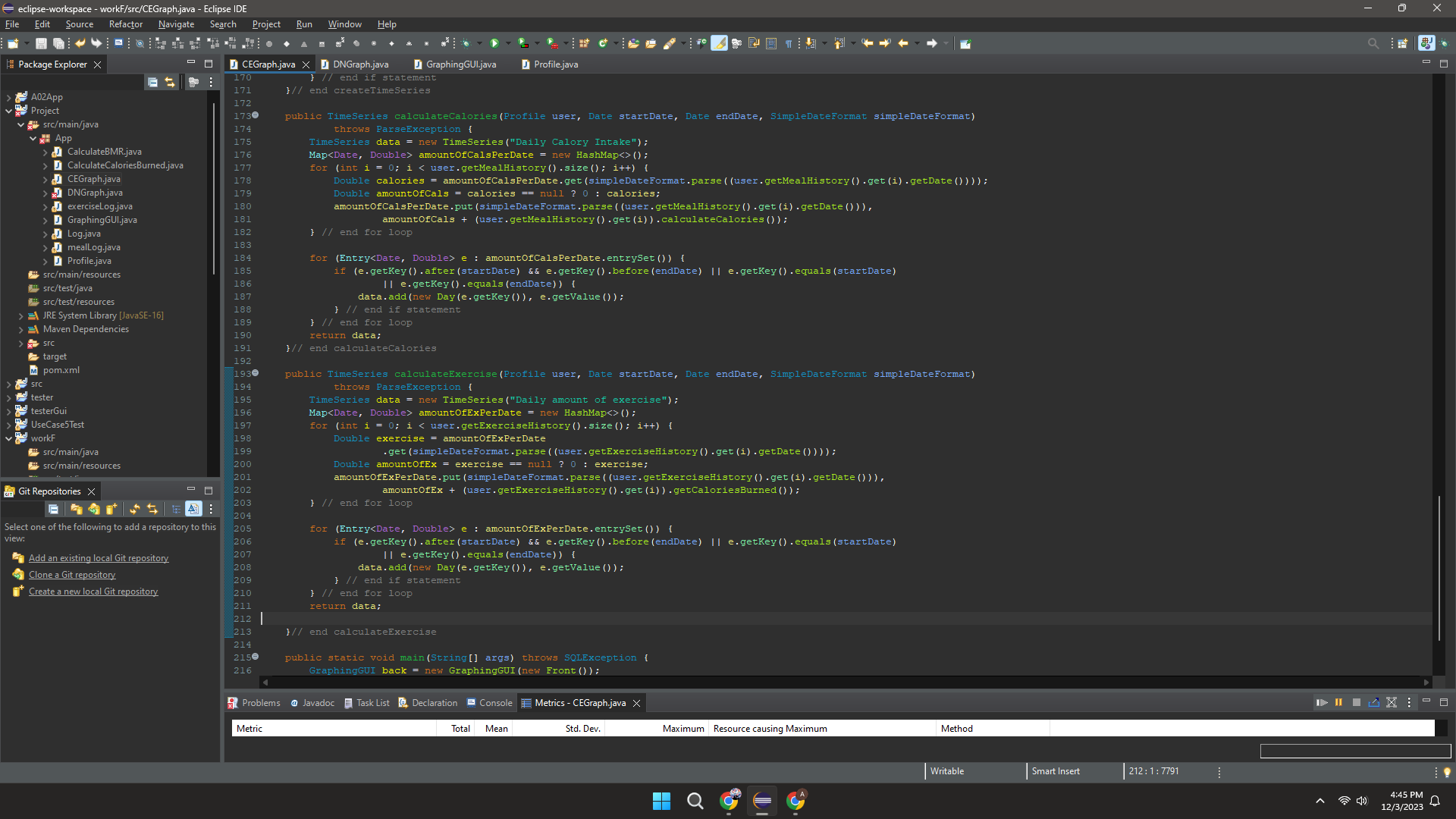
New Metrics

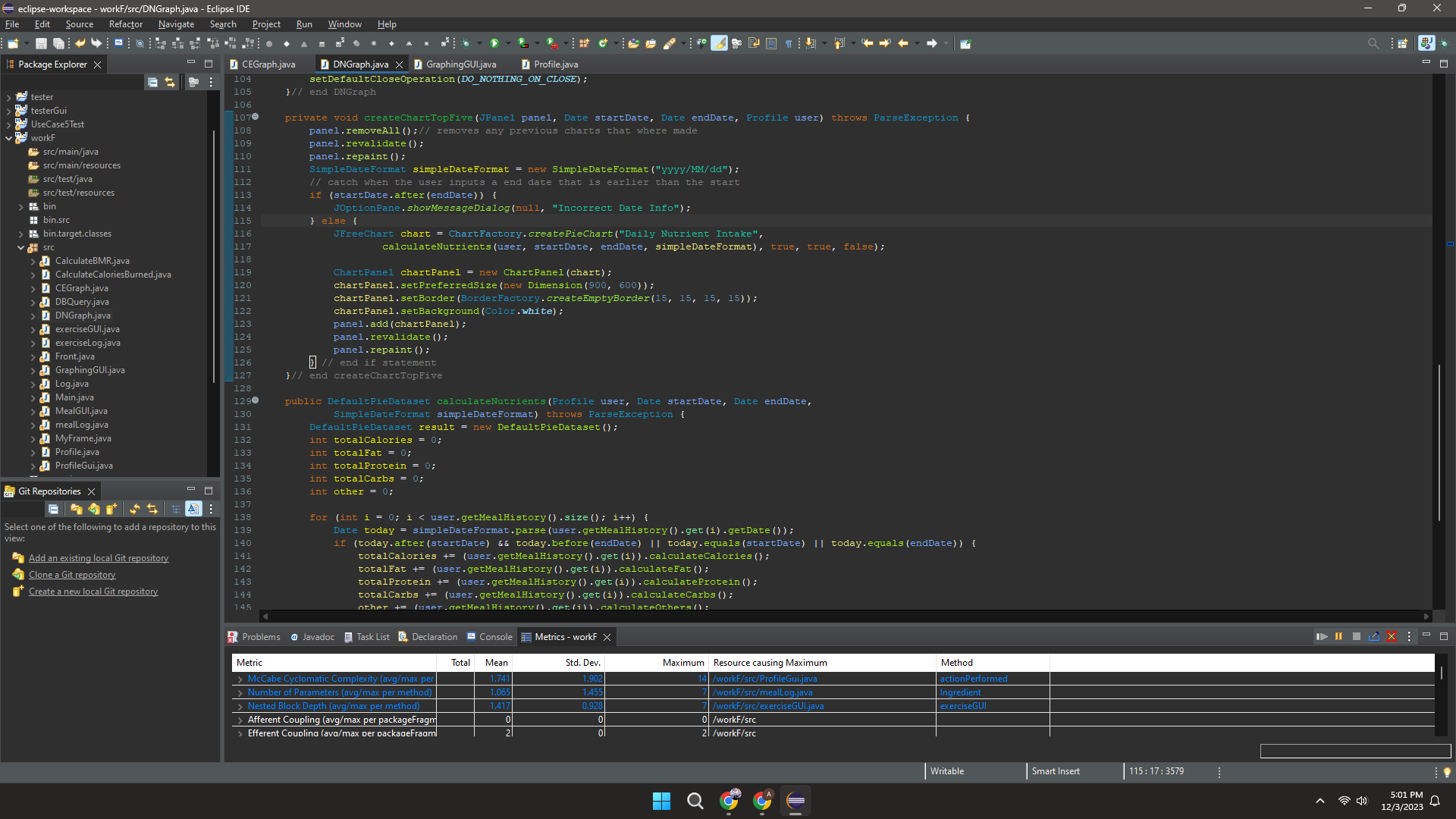
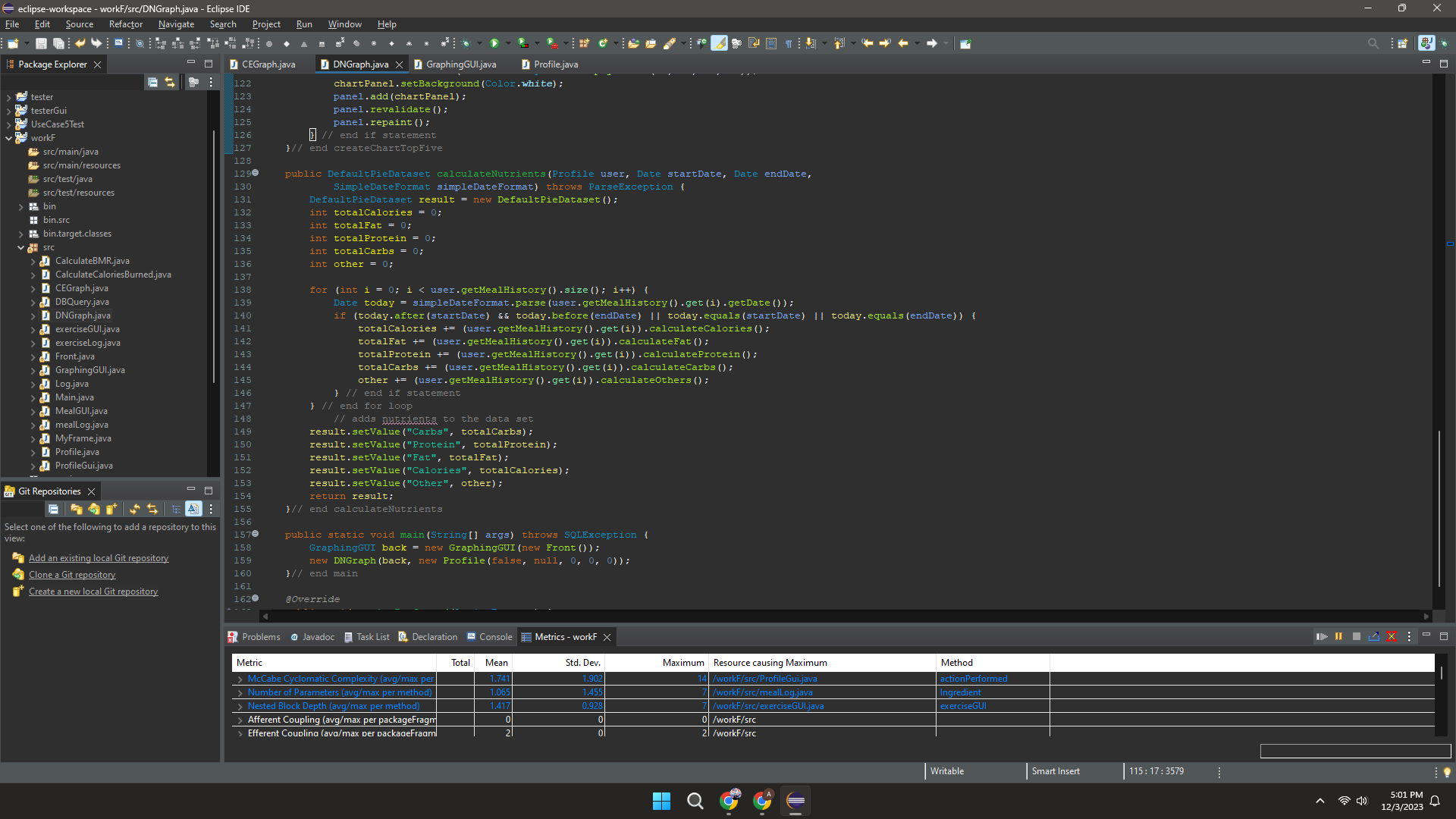




New Code







Code smells

Duplicated Code in CEGraph -> extract method

Long Method for both -> extract method

CEGraph’s method createChart repeats and calculates data in multiple places in the system so it is duplicated code. This can make the code harder to read for others and can mean that it is difficult to alter the code in the future. I used the extract method to separate the createChart method and create separate methods to calculate calorie intake and exercise.

DNGraph’s method createPieChart has a lot of lines of code and high complexity so it is a long method. Again this makes the code harder to read and update in the future and can cause future maintenance problems. I used the extract method to be able to separate the methods. One creates the chart and calls the other method to calculate the data and add it to the dataset.

With the new adjustments the complexity of both CEGraph and DNGraph has decreased.