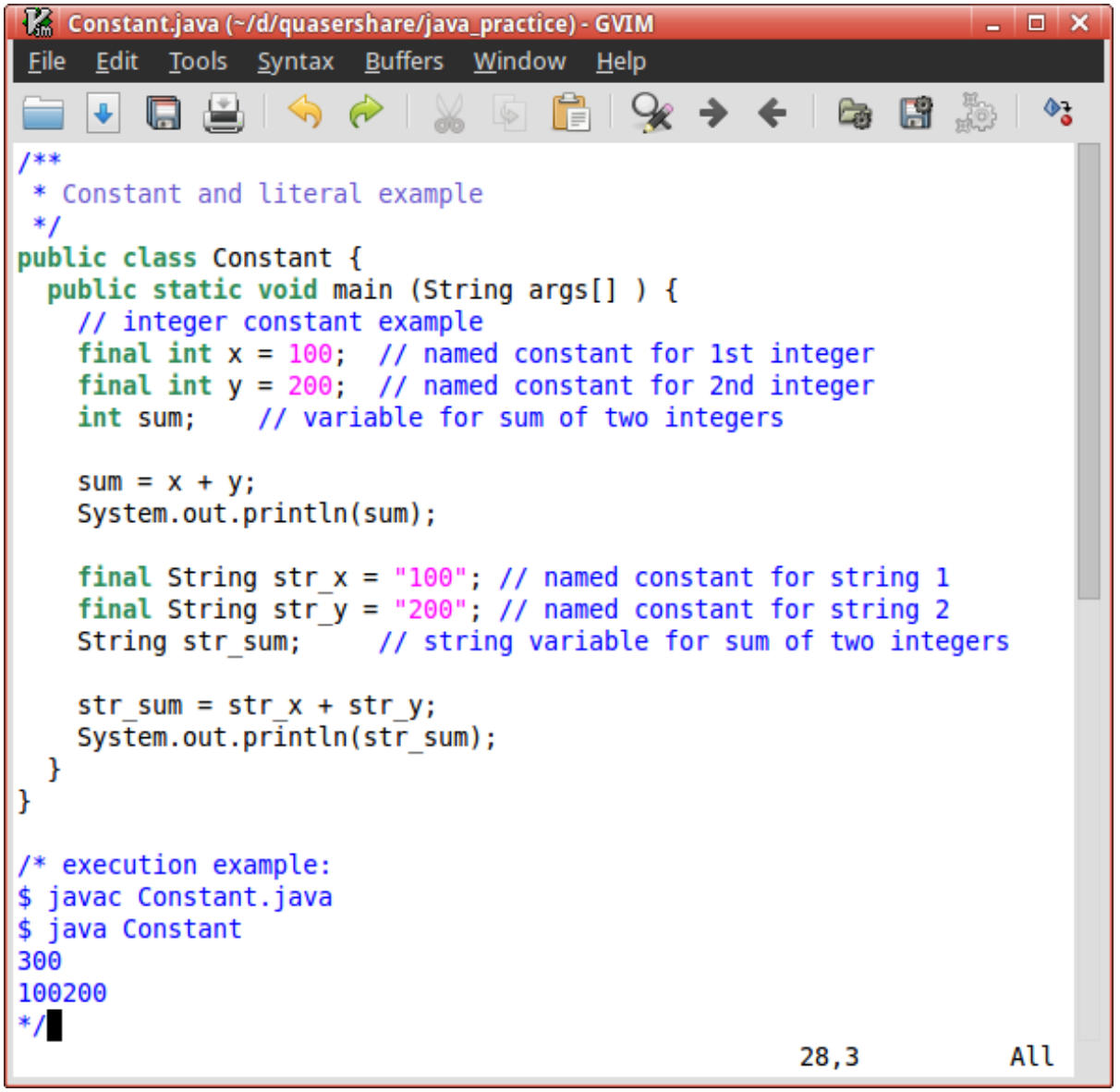
Exercise part 1 for
Chapter 2 Elementary Programming

COMP217
Java Programming
Spring 2019

Constant example

Write a java code “Constant.java” and translate it into C

Submission:
Constant.java
Constant.c



Example: Annual Salary

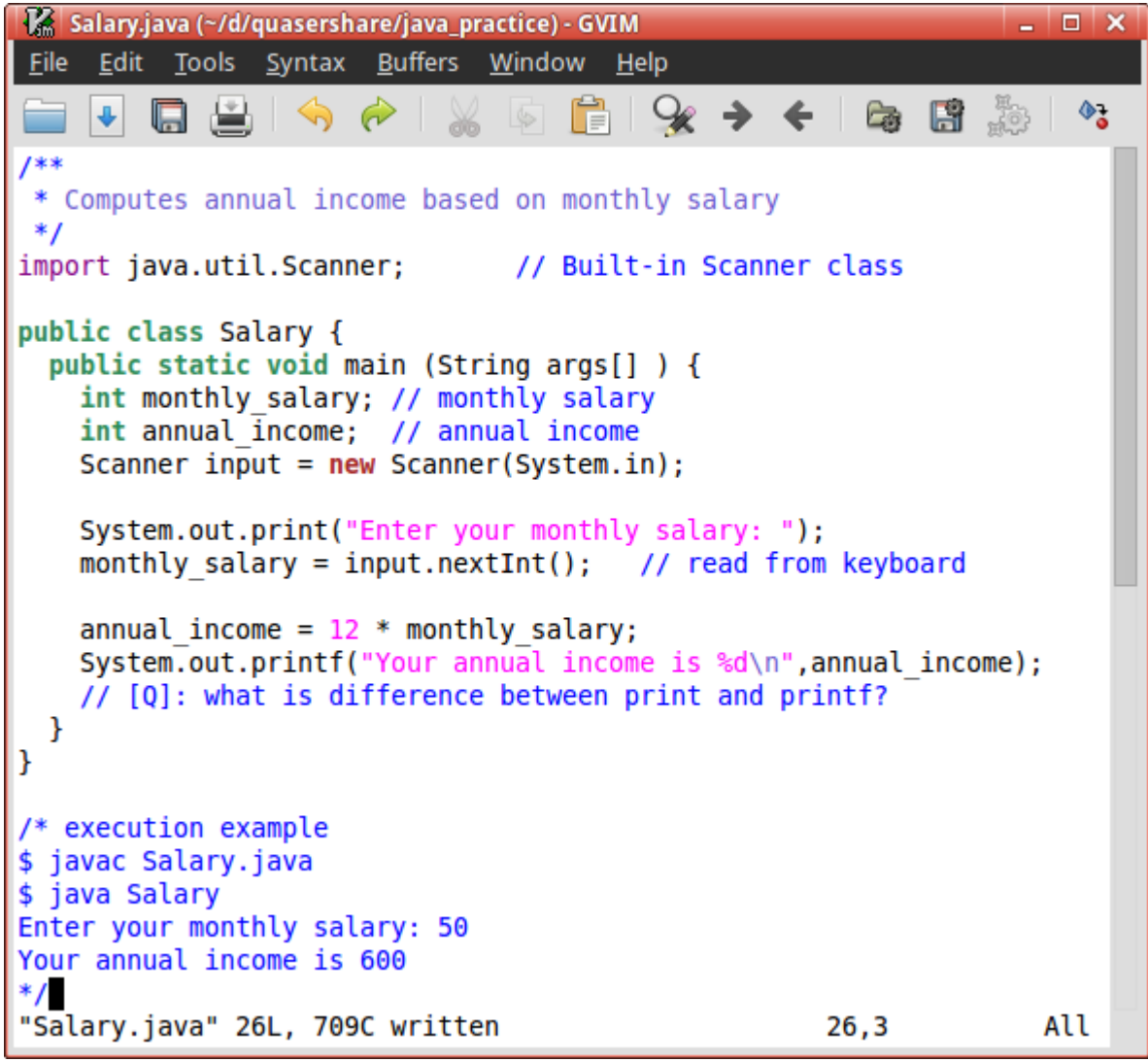
1. Read monthly salary from keyboard
2. Compute annual salary
3. Print it

Then, translate it into C

Submission:

Salary.java

Salary.c



Area of a Circle

1. Read radius from keyboard
2. Compute the area of the circle
3. Print it

Then, translate it into C

Submission:

CircleArea.java

CircleArea.c

CircleArea.java + (~/d/quasershare/java_practice) - GVIM

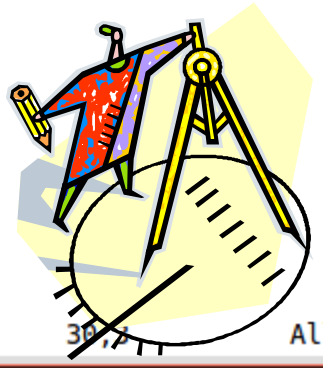
File Edit Tools Syntax Buffers Window Help

```
import java.util.Scanner;       // Built-in Scanner class

public class CircleArea {
  public static void main (String args[] ) {
    double radius;      // diameter
    double area;        // area
    Scanner input = new Scanner(System.in);
    System.out.print("Enter the radius: ");
    radius = input.nextDouble();
        // nextInt: read an INTEGER from keyboard
        // nextDouble: read a REAL NUMBER from keyboard
        // [Q]: what happens if we use radius = input.nextInt(); ?

    area = 3.14 * radius * radius;
        // [Q]: any operator for square (r^2) ?

    System.out.print("Area = ");
    System.out.println(area);   // method 1
    System.out.printf("Area = %f\n", area);     // method 2
    System.out.println("Area = " + area);       // method 3
  }
}
/* execution example
quaser:java_practice$ javac CircleArea.java
quaser:java_practice$ java CircleArea
Enter the radius: 5.6
Area = 98.4704
Area = 98.470400
Area = 98.4704
*/
```



30,7 All