```
C1:
public class Balance
   public static void main(String[] args)
   {
      double balance = 1000;
      balance = balance * 1.05;
      System.out.print("Balance after first year is ");
      System.out.println(balance);
      balance = balance * 1.05;
      System.out.print("Balance after second year is ");
      System.out.println(balance);
      balance = balance * 1.05;
      System.out.print("Balance after third year is ");
      System.out.println(balance);
}
C2:
import java.util.Scanner;
public class Powers
   public static void main(String[] args)
        Scanner in = new Scanner(System.in);
        System.out.print("Please enter a number: ");
        double number = in.nextDouble();
        double square = Math.pow(number,2);
        System.out.print("Square: ");
        System.out.println(square);
        double cube = Math.pow(number,3);
        System.out.print("Cube: ");
        System.out.println(cube);
        double fourthPower = Math.pow(number,4);
        System.out.print("Fourth power: ");
        System.out.println(fourthPower);
C3:
import java.util.Scanner;
public class CompareIntegers
   public static void main(String[] args)
   {
```

```
Scanner in = new Scanner(System.in);
      System.out.print("Please enter the first integer: ");
      int firstInt = in.nextInt();
      System.out.print("Please enter the second integer: ");
      int secondInt = in.nextInt();
      int sum = firstInt + secondInt;
      System.out.print("Sum: ");
      System.out.println(sum);
      int difference = firstInt - secondInt;
      System.out.print("Difference: ");
      System.out.println(difference);
      int product = firstInt * secondInt;
      System.out.print("Product: ");
      System.out.println(product);
      double average = (firstInt + secondInt) / 2.0;
      System.out.print("Average: ");
      System.out.println(average);
      int max = Math.max(firstInt, secondInt);
      System.out.print("Maximum: ");
      System.out.println(max);
      int min = Math.min(firstInt, secondInt);
      System.out.print("Minimum: ");
      System.out.println(min);
}
C4:
import java.util.Scanner;
public class RectangleCalculations
   public static void main(String[] args)
   {
      Scanner in = new Scanner(System.in);
      System.out.print("Please enter width of rectangle: ");
      double width = in.nextDouble();
      System.out.print("Please enter height of rectangle: ");
      double height = in.nextDouble();
      System.out.print("Area of rectangle: ");
      System.out.println(width * height);
      System.out.print("Perimeter of rectangle: ");
      System.out.println(2 * width + 2 * height);
}
C5:
```

```
import java.util.Scanner;
public class RestaurantMeal
   public static void main(String[] args)
   {
      final double VAT RATE = 0.175;
      final double GRAT RATE = 0.1;
      Scanner in = new Scanner(System.in);
      System.out.print("Enter total meal cost: ");
      double totalMealCost = in.nextDouble();
      double vat = totalMealCost * VAT RATE;
      double grat = totalMealCost * GRAT RATE;
      double mealPrice = totalMealCost + vat + grat;
      System.out.print("Total price of meal: ");
      System.out.println(mealPrice);
}
C6:
import java.util.Scanner;
public class GivingChange
   public static void main(String[] args)
      Scanner in = new Scanner(System.in);
      System.out.print("Enter the amount due, in pence: ");
      int amountDue = in.nextInt();
      System.out.print("Enter the amount received, in pence: ");
      int amountReceived = in.nextInt();
      int changeInPence = amountReceived - amountDue;
      int pounds = changeInPence / 100;
      int rest = changeInPence % 100;
      int fiftys = rest / 50;
      rest = rest % 50;
      int twentys = rest / 20;
      rest = rest % 20;
      int tens = rest / 10;
      rest = rest % 10;
      int fives = rest / 5;
      rest = rest % 5;
      int twos = rest / 2;
      int ones = rest % 2;
      System.out.println("Give the following change: ");
```

```
System.out.print(pounds); System.out.println(" pounds");
      System.out.print(fiftys); System.out.println(" 50p");
      System.out.print(twentys); System.out.println(" 20p");
      System.out.print(tens); System.out.println(" 10p");
      System.out.print(fives); System.out.println(" 5p");
      System.out.print(twos); System.out.println(" 2p");
      System.out.print(ones); System.out.println(" 1p");
}
C7:
import java.util.Scanner;
public class RemoveComma
   public static void main(String[] args)
     System.out.println("Please enter a number between 1,000 and
999,999: ");
        Scanner in = new Scanner(System.in);
        String number = in.next();
        int len = number.length();
        String firstPart = number.substring(0,len-4);
        String secondPart = number.substring(len-3,len);
        System.out.println(firstPart + secondPart);
   }
}
```