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1.Perimeter of rectangle-
class problem1 {
  public static void main(String[] args) {
    int I = 5;
    int b = 7;
    int Perimeter = 2*(I+b);
    int Area = I*b;
    System.out.println("Perimeter = " + Perimeter + "\n" + "Area = " + Area);
  }
}
2. Perimeter of Triangle-
class problem2 {
  public static void main(String[] args) {
    int side1 = 2;
    int side2 = 3;
    int side3 = 5;
    int Perimeter = side1 + side2 + side3;
    System.out.println("Perimeter = " + Perimeter);
  }
}
3. Write a program to add 8 to the number 2345 and then divide it by 3. Now, the modulus of the quotient
is taken with 5 and then multiply the resultant value by 5. Display the final result.
class Problem3 {
  public static void main(String[] args) {
    int a = 2345;
    int b = (a+8)/3;
    int c = (b\%5)*5;
    System.out.println("Result is " + c);
  }
}
4.solve the above question using assignment operators (eg. +=, -=, *=).
class Problem4 {
  public static void main(String[] args) {
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int a = 2345; a += 8; a /= 3; a %= 5;

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System.out.println("Result is " + a);
  }
}
5.check if the two numbers 23 and 45 are equal.
class Problem5 {
  public static void main(String[] args) {
    int a = 23;
    int b = 45;
    if (a == b)
      System.out.println("equal");
      System.out.println("Not equal");
  }
}
6.print the power of 7 raised to 5.
class Problem6 {
  public static void main(String[] args) {
    double a = Math.pow(7, 5);
    System.out.println("Result is " + a);
  }
}
7. Assign values of variables 'a' and 'b' as 55 and 70 respectively and then check if both the conditions 'a <
50' and 'a < b' are true.
class Problem7 {
  public static void main(String[] args) {
    int a = 55;
    int b = 70;
    if (a < 50 && a < b)
       System.out.println("Condition is True");
       System.out.println("Condition is False");
  }
}
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a *= 5;

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8.check if atleast one of the conditions 'a < 50' or 'a < b' is true.
class Problem8 {
  public static void main(String[] args) {
    int a = 55;
    int b = 70;
    if (a < 50 || a < b)
       System.out.println("Condition is True");
    else
       System.out.println("Condition is False");
  }
}
9.If the marks of Robert in three subjects are 78,45 and 62 respectively (each out of 100), write a program
to calculate his total marks and percentage marks.
import java.text.DecimalFormat;
class Problem9 {
  static DecimalFormat df = new DecimalFormat("0.00");
  public static void main(String[] args) {
    int sub1 = 78;
    int sub2 = 45;
    int sub3 = 62;
    double total = sub1 + sub2 + sub3;
    double percentage = (total/300)*100;
    System.out.println("Total marks = " + (int) total);
    System.out.println("Percentage = " + df.format(percentage));
  }
}
10.program by using a third variable
class Problem10 {
  public static void main(String[] args) {
    int a, b, c;
    a = 6;
    b = 8;
    c = a;
    a = b;
    b = c;
    System.out.println(a);
     System.out.println(b);
```

}

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}
11.convert Fahrenheit into Celsius.
import java.util.Scanner;
class Problem11 {
  public static void main(String args[]) {
    float Fahrenheit, Celsius;
    System.out.print("Enter Temperature in Fahrenheit: ");
    Scanner sc = new Scanner(System.in);
     Fahrenheit = sc.nextFloat();
    Celsius = ((Fahrenheit - 32) * 5) / 9;
    System.out.println("Temperature in Celsius is: " + Celsius);
    sc.close();
  }
}
12.program to calculate the total number of girls getting grade 'A'.
public class Problem12 {
  public static void main(String[] args) {
    double total, TotalGradeA, gradeAboys, gradeAgirls;
    total = 90;
    TotalGradeA = (50/100.0) * total; // 45
    gradeAboys = 20;
    gradeAgirls = TotalGradeA - gradeAboys; //20
    System.out.println("total number of girls getting grade A: " + (int) gradeAgirls);
  }
}
13.calculate the sum of the digits of a 3-digit number.
import java.util.Scanner;
class Problem13 {
  public static void main(String args[]) {
    int num, sum = 0;;
    System.out.print("Enter a number: ");
    Scanner sc = new Scanner(System.in);
    num = sc.nextInt();
    while (num != 0) {
       sum = sum + num % 10;
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num = num / 10;
    }
    System.out.println("Sum of all digits: " + sum);
    sc.close();
  }
}
14.reverse a 3-digit number.
import java.util.Scanner;
class Problem14 {
  public static void main(String args[]) {
    int num;
    System.out.print("Enter a number: ");
    Scanner sc = new Scanner(System.in);
    num = sc.nextInt();
    int rev_num = 0;
    while (num > 0) {
      rev_num = rev_num * 10 + num % 10;
       num = num / 10;
    }
    System.out.println("Reversed number is: " + rev_num);
    sc.close();
  }
}
```