Length and breadth of a rectangle are 5 and 7 respectively. Write a program to calculate the area and perimeter of the rectangle.

```
class Ans{
  public static void main(String[] args){
    int x = 5
    int y = 7
    System.out.println("Area is "+(5*7)+"\nPerimeter is "+(2*(5+7)));
  }
}
```

Write a program to calculate the perimeter of a triangle having sides of length 2,3 and 5 units.

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.

```
cclass Ans{
  public static void main(String[] args){
    System.out.println((((8+2345)/3)%5)*5);
  }
}
```

Now, solve the above question using assignment operators (eg. +=, -=, \*=).

Write a program to check if the two numbers 23 and 45 are equal.

```
class Ans{
  public static void main(String[] args){
    System.out.println(23 == 45);
  }
}
```

Write a program to print the power of 7 raised to 5.

```
import java.lang.Math;
class Ans{
  public static void main(String[] args){
    System.out.println(Math.pow(7,5));
  }
}
```

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 Ans{
  public static void main(String[] args){
   int a = 55;
  int b = 70;
   System.out.println(a < 50 && a < b);
  }
}</pre>
```

Now solve the above question to check if atleast one of the conditions 'a < 50' or 'a < b' is true.

```
class Ans{
  public static void main(String[] args){
   int a = 55;
  int b = 70;
   System.out.println(a < 50 || a < b);
  }
}</pre>
```

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.

Suppose the values of variables 'a' and 'b' are 6 and 8 respectively, write two programs to swap the values of the two variables.

- 1 first program by using a third variable
- 2 second program without using any third variable

( Swapping means interchanging the values of the two variables E.g.- If entered value of x is 5 and y is 10 then after swapping the value of x and y should become 10 and 5 respectively.)

```
class Ans{
  public static void main(String[] args){
    //using third variable
    //a = c
    //a = b
    //b = c
    //without using third variable
    //b = b-a
    //a = b+a
    //b = -(b-a)
  }
}
```

Write a program to convert Fahrenheit into Celsius.

The total number of students in a class are 90 out of which 45 are boys. If 50% of the total students secured grade 'A' out of which 20 are boys, then write a program to calculate the total number of girls getting grade 'A'.

Write a program to calculate the sum of the first and the second last digit of a 5 digit.

E.g.- NUMBER: 12345 OUTPUT: 1+4=5

```
public static void main(String[] args){
   int n, first, second, third, forth, fifth, sum;
   /*Now we will take out each digit of this number and then finally add the first and th
e second last digits*/
   first = n/10000;
                        //first digit
   n = n%10000;
   second = n/1000;
                       //second digit
   n = n\%1000;
   third = n/100;
                       //third digit
   n = n\%100;
   forth = n/10;
                        //forth digit
   fifth = n\%10;
                        //fifth digit
   sum = first + forth;
   System.out.println("sum : "+sum);
```

Take a 4 digit number. Write a program to display a number whose digits are 2 greater than the corresponding digits of the number TAKEN.

For example, if the number which was taken is 5696, then the displayed number should be 7818.

Write a program to calculate the sum of the digits of a 3-digit number.

Number: 132 Output: 6

Write a program to reverse a 3-digit number. E.g.-Number : 132 Output : 231