

```
example1.java - Notepad
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/* 11. Write a program in Java to print the result of the specified
operations.
Sample Output:
Print the result of some specific operation :
-----
Result of 1st expression is : 23
Result of 2nd expression is : 5
Result of 3rd expression is : 12
Result of 4th expression is : 3 */

public class example1
{
    public static void main(String[] args)
    {
        System.out.print("Result of 1st expression is:");
        System.out.println(-1+4*6);
        System.out.print("Result of 2nd expression is:");
        System.out.println((35+5)%7);
        System.out.print("Result of 3rd expression is:");
        System.out.println(14+-4*6/11);
        System.out.print("Result of 3rd expression is:");
        System.out.println(2+15/6*1-7%2);
    }
}
```

```
Command Prompt
Microsoft Windows [Version 10.0.19042.1165]
(c) Microsoft Corporation. All rights reserved.

C:\Users\15sdu3074tx>cd onedrive
C:\Users\15sdu3074tx\OneDrive>cd desktop
C:\Users\15sdu3074tx\OneDrive\Desktop>cd java programs
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>java example1
Result of 1st expression is:23
Result of 2nd expression is:5
Result of 3rd expression is:12
Result of 3rd expression is:3
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>_
```

example2.java - Notepad  
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```
/* 12. Write a program in Java to add two numbers accept through  
keyboard.
```

```
Sample Output:
```

```
Original array:
```

```
[10, 20, 30]
```

```
After append values to the end of the array:
```

```
[10 20 30 40 50 60 70 80 90] */
```

```
import java.util.Arrays;
```

```
class example2
```

```
{  
    public static void main (String args[])  
    {  
        int[] Array1 = new int[]{10,20,30};  
        int[] Array2 = new int[]{40,50,60,70,80,90};  
        int lenArray1 = Array1.length;  
        int lenArray2 = Array2.length;  
        int[] concat = new int[lenArray1 + lenArray2];  
        System.arraycopy(Array1, 0, concat, 0, lenArray1);  
        System.arraycopy(Array2, 0, concat, lenArray1, lenArray2);  
        System.out.println("Original array: " + Arrays.toString(Array1));  
        System.out.println("After append values to the end of the array:"  
        + Arrays.toString(concat));  
    }  
}
```

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Command Prompt

```
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>java example2  
Original array: [10, 20, 30]  
After append values to the end of the array:[10, 20, 30, 40, 50, 60, 70, 80, 90]  
  
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>
```

OneDrive\Desktop\java programs

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vehicle\$Customer.class

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example3.java - Notepad

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/\* 13. Write a program in Java to swap two numbers.

Sample Output:

Swap two numbers :

-----  
Input 1st number : 25

Input 2nd number : 39

After swapping the 1st number is : 39

After swapping the 2nd number is : 25 \*/

public class example3

```
{  
    public static void main(String[] args) {  
        int first = 25, second = 39;  
        System.out.println("Input 1st number : " + first);  
        System.out.println("Input 2nd number : " + second);  
        int temp = first;  
        first = second;  
        second = temp;  
        System.out.println("After swapping the 1st number is : " + first);  
        System.out.println("After Swapping the 2nd number is : " + second);  
    }  
}
```

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Command Prompt

C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>java example3

Input 1st number : 25

Input 2nd number : 39

After swapping the 1st number is : 39

After Swapping the 2nd number is : 25

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example4.java - Notepad

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```
/* 14. Write a program in Java to calculate the volume of  
a sphere.  
Sample Output:  
Calculate the volume of a sphere :  
-----  
Input the radius of a sphere : 6  
The volume of a sphere is : 904.32 */  
  
import java.util.Scanner;  
class example4  
{  
    public static void main(String args[]) {  
        Scanner s= new Scanner(System.in);  
        System.out.print("Input the radius of a sphere : ");  
        double r=s.nextDouble();  
        double volume= (4*22*r*r*r)/(3*7);  
        System.out.println("The volume of a sphere is : " +volume);  
    }  
}
```

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vehicle\$Customer.class  
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Command Prompt

```
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>java example4  
Input the radius of a sphere : 6  
The volume of a sphere is : 905.1428571428571  
  
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>
```

example5.java - Notepad

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```
/* 15. Write a program in Java to calculate the volume of a cube.  
Sample Output:  
Calculate the volume of a cube :  
-----  
Input the side of a cube : 5  
The volume of a cube is : 125 */  
  
import java.util.Scanner;  
class example5  
{  
    public static void main(String args[])  
    {  
        Scanner s= new Scanner(System.in);  
        System.out.print("Input the side of a cube : ");  
        int side=s.nextInt();  
        int volume=side*side*side;  
        System.out.println("The volume of a cube is : " +volume);  
    }  
}
```

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Command Prompt

```
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>java example5  
Input the side of a cube : 5  
The volume of a cube is : 125  
  
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>
```

example6.java - Notepad

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```
/* 16. Write a program in Java to calculate the volume of a cylinder.
```

```
Sample Output:
```

```
Calculate the volume of a cylinder :
```

```
-----  
Input the radius of the cylinder : 6
```

```
Input the height of the cylinder : 8
```

```
The volume of a cylinder is : 904.32 */
```

```
import java.util.Scanner;
```

```
class example6
```

```
{  
    public static void main(String args[])  
    {  
        Scanner s= new Scanner(System.in);  
        System.out.print("Input the radius of the cylinder : ");  
        double r=s.nextDouble();  
        System.out.print("Input the height of the cylinder : ");  
        double h=s.nextDouble();  
        double volume=((22*r*r*h)/7);  
        System.out.println("The volume of a cylinder is : " +volume);  
    }  
}
```

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Command Prompt

```
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>java example6
```

```
Input the radius of the cylinder : 6
```

```
Input the height of the cylinder : 8
```

```
The volume of a cylinder is : 905.1428571428571
```

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vehicle.class

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example7.java - Notepad

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```
/* 17. Write a program in Java to find the Area and Perimeter of a Rectangle.
```

Sample Output:

### Find the Area and Perimeter of a Rectangle :

Input the length of the rectangle : 10

Input the length of the rectangle : 10

```
Input the width of the rectangle : 15
```

The area of the rectangle is : 150

The perimeter of the rectangle is : 50 \*/

```
import java.util.Scanner;
public class example7
{
    public static void main(String[] args)
    {
        int length, width, area, perimeter;
        Scanner in = new Scanner(System.in);
        System.out.print("Input the length of the rectangle : ");
        length = in.nextInt();
        System.out.print("Input the width of the rectangle : ");
        width = in.nextInt();
        perimeter = 2 * (length + width);
        area = length * width;
        System.out.println("The area of the rectangle is : " + area);
        System.out.println("The perimeter of the rectangle is : " + perimeter);
    }
}
```

 Command Prompt

```
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>java example7
Input the length of the rectangle : 10
Input the width of the rectangle : 15
The area of the rectangle is : 150
The perimeter of the rectangle is : 50
```

```
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```



example8.java - Notepad  
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```
/* 18. Write a program in Java to find the area of any triangle using Heron's Formula.
```

```
Sample Output:
```

```
Find the area of any triangle using Heron's Formula :
```

```
-----  
Input the length of 1st side of the triangle : 5  
Input the length of 2nd side of the triangle : 5  
Input the length of 3rd side of the triangle : 5  
The area of the triangle is : 10.8253 */
```

```
import java.util.Scanner;  
public class  
{  
    public static void main(String[] args)  
    {  
        double s1, s2, s3, area, S;  
        Scanner scanner;  
        scanner = new Scanner(System.in);  
        System.out.print("Input the length of 1st side of the triangle : ");  
        s1 = scanner.nextDouble();  
        System.out.print("Input the length of 2nd side of the triangle : ");  
        s2 = scanner.nextDouble();  
        System.out.print("Input the length of 3rd side of the triangle : ");  
        s3 = scanner.nextDouble();  
        S = (s1 + s2 + s3) / 2;  
        area = Math.sqrt(S * (S - s1) * (S - s2) * (S - s3));  
        System.out.format("The area of the triangle is : %.2f\n", area);  
    }  
}
```

Command Prompt

```
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>java example8  
Input the length of 1st side of the triangle : 5  
Input the length of 2nd side of the triangle : 5  
Input the length of 3rd side of the triangle : 5  
The area of the triangle is : 10.83  
  
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```

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```
example9.java - Notepad
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/* 19. Write a program in Java to find the area and circumference of a circle.
Sample Output:
Find the area and circumference of any circle :
-----
Input the radius(1/2 of diameter) of a circle : 5
The area of the circle is : 78.5397
The circumference of the circle is : 31.4159 */

import java.util.Scanner;
class example9
{
    static Scanner sc = new Scanner(System.in);
    public static void main(String args[])
    {
        System.out.print("Input the radius (1/2 of diameter) of a circle : ");
        double radius = sc.nextDouble();
        double area = Math.PI * (radius * radius);
        System.out.println("The area of the circle is : " + area);
        double circumference= Math.PI * 2*radius;
        System.out.println( "The circumference of the circle is : "+circumference) ;
    }
}
```

```
Command Prompt
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>java example9
Input the radius(1/2 of diameter) of a circle : 5
The area of the circle is : 78.53981633974483
The circumference of the circle is : 31.41592653589793
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>
```

example10.java - Notepad

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```
/* 20. Write a program in Java to convert temperature in Celsius to Fahrenheit.  
Sample Output:  
Convert temperature in Celsius to Fahrenheit :  
-----  
Input the temperature in Celsius : 35  
The temperature in Celsius : 35  
The temperature in Fahrenheit : 95 */  
  
import java.util.Scanner;  
public class example10  
{  
    public static void main(String[] args)  
    {  
        int cel, far;  
        Scanner sc= new Scanner(System.in);  
        System.out.println("Input the temperature in Celsius : ");  
        int a= sc.nextInt();  
        System.out.println("The temperature in Celsius is : "+a);  
        cel= a;  
        far = cel * 9/5 + 32;  
        System.out.println("Temperature in Fahrenheit is : "+far);  
    }  
}
```

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vehicle.java  
vehicle.class

Command Prompt

```
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>java example10  
Input the temperature in Celsius :  
35  
The temperature in Celsius is : 35  
Temperature in Fahrenheit is : 95  
  
C:\Users\15sdu3074tx\OneDrive\Desktop\java programs>
```