

- [Java Swap two Strings](#)
- [Java Check Anagram or Not](#)
- [Java Check Balance Parentheses](#)
- [Java Check Password Strength](#)
- [Java File Programs](#)
- [Java Read File](#)
- [Java Write to File](#)
- [Read & Display File Content](#)
- [Java Copy File](#)
- [Java Append Text to File](#)
- [Java Merge two File](#)
- [List files in Directory](#)
- [Java Delete File](#)
- [Java Miscellaneous Programs](#)
- [Generate Random Numbers](#)
- [Java Print Time & Date](#)
- [Java Get IP Address](#)
- [Java Shutdown Computer](#)
- [Java Programming Tutorial](#)
- [Java Tutorial](#)

## Java Program to Add Two Numbers

This article is created to cover one of the most popular program in Java. That program is to add two numbers. I've created the same program using multiple ways in Java. Here are the list of ways covered in this article:

- Simplest program of adding two numbers in Java
- Add two numbers using **Scanner** (or by user-input)
- Add two numbers using user-defined function
- Add two numbers using **class**
- Add two numbers using constructor

### Add Two Numbers in Java - Simplest Version

The question is, *write a Java program to add two numbers*. The program given below is the answer to this question:

```
import java.util.Scanner;

public class CodesCracker
{
    public static void main(String[] args)
    {
        int numberOne = 5, numberTwo = 10, add;

        add = numberOne + numberTwo;
        System.out.println("Result = " +add);
    }
}
```

The output produced by above Java program is:

```
Result = 15
```

Now let's move on, and create a program in Java that takes inputs from user and then adds that given two numbers.

## Add Two Numbers in Java using Scanner

The question is, *write a Java program to add any two numbers. Both the number must be received by user at run-time of the program*. The program given below is its answer:

```
import java.util.Scanner;

public class CodesCracker
{
    public static void main(String[] args)
```

```

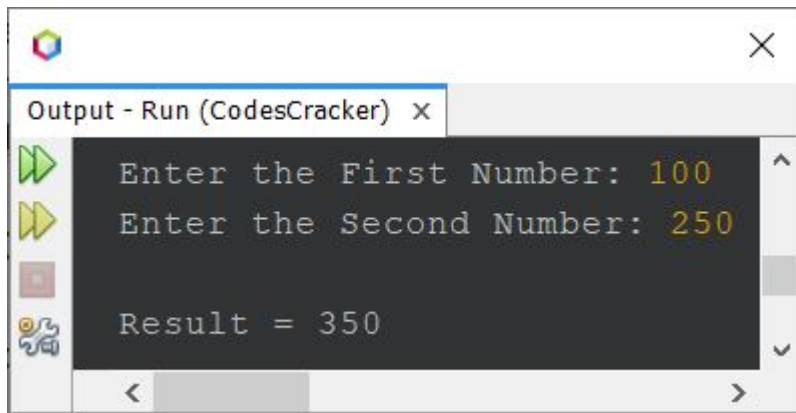
{
    int numberOne, numberTwo, add;
    Scanner s = new Scanner(System.in);

    System.out.print("Enter the First Number: ");
    numberOne = s.nextInt();
    System.out.print("Enter the Second Number: ");
    numberTwo = s.nextInt();

    add = numberOne + numberTwo;
    System.out.println("\nResult = " + add);
}
}

```

The snapshot given below shows the sample run of above program, with user input 100 and 250 as two numbers:



The above program can also be created in this way:

```

import java.util.Scanner;

public class CodesCracker
{
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);
    }
}

```

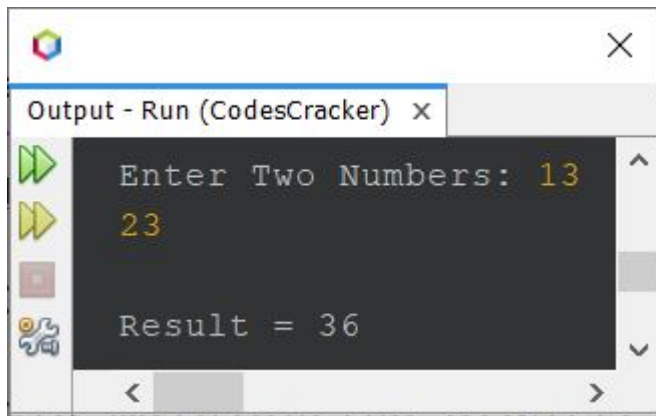
```

        System.out.print("Enter Two Numbers: ");
        int a = s.nextInt();
        int b = s.nextInt();

        System.out.println("\nResult = " +(a+b));
    }
}

```

The snapshot given below shows the sample run of above Java program with user input **13** and **23** as two numbers:



There is a limitation with above program. That limitation is, the program only works with integer. Therefore let me create another program that works for both integer and real numbers:

```

import java.util.Scanner;

public class CodesCracker
{
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);

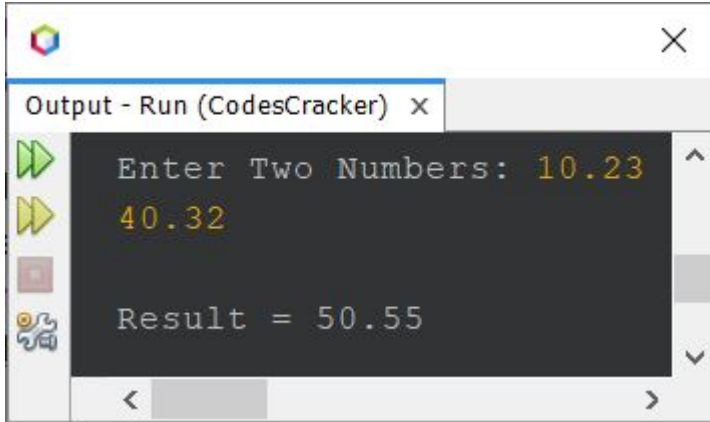
        System.out.print("Enter Two Numbers: ");
        float a = s.nextFloat();
    }
}

```

```
float b = s.nextFloat();

System.out.println("\nResult = " +(a+b));
}
}
```

Here is its sample run with user input **10.23** and **40.32** as two numbers:



```
Enter Two Numbers: 10.23
40.32
Result = 50.55
```

## Add Two Numbers in Java using Function

This program is created to show, how the addition of two numbers can be performed in Java using a user-defined function. That is, a function named **add()** is created, that takes two arguments and returns the addition result of its arguments.

```
import java.util.Scanner;

public class CodesCracker
{
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);

        System.out.print("Enter the First Number: ");
```

```

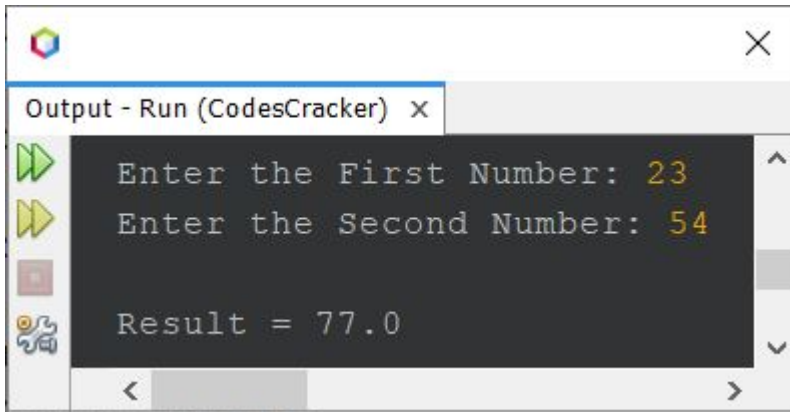
float a = s.nextFloat();
System.out.print("Enter the Second Number: ");
float b = s.nextFloat();

System.out.println("\nResult = " +add(a, b));
}

public static float add(float x, float y)
{
    return (x+y);
}
}

```

The sample run of above program is:



```

Output - Run (CodesCracker) x
Enter the First Number: 23
Enter the Second Number: 54
Result = 77.0

```

## Add Two Numbers in Java using Class

Here is another program created using a class. That is, an object **obj** of the class **CodesCracker** is created. And using the object **obj**, we can call the method **add()** of the class. Rest of the things are similar to previous program, that was created using function.

```

import java.util.Scanner;

public class CodesCracker

```

```

{
    static int add(int x, int y)
    {
        return (x+y);
    }
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);

        System.out.print("Enter the First Number: ");
        int a = s.nextInt();
        System.out.print("Enter the Second Number: ");
        int b = s.nextInt();

        CodesCracker obj = new CodesCracker();
        int res = obj.add(a, b);

        System.out.println("\nResult = " +res);
    }
}

```

## Add Two Numbers in Java using Constructor

This is the last program of this article, created using a constructor. A constructor is basically a method having its name, same as the name of the class. Constructor gets automatically executed when an object of the class will get created.

```

import java.util.Scanner;

public class CodesCracker
{
    int add;
    CodesCracker(int x, int y)
    {
        add = x + y;
        System.out.println("\nResult = " +add);
    }
}

```

```

    }
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);

        System.out.print("Enter the First Number: ");
        int a = s.nextInt();
        System.out.print("Enter the Second Number: ");
        int b = s.nextInt();

        CodesCracker obj = new CodesCracker(a, b);
    }
}

```

The above program produces similar result/output as of previous program. In above program, after executing the statement:

```
CodesCracker obj = new CodesCracker(a, b);
```

The constructor (a method inside the class with its name, same as class name) named **CodesCracker()** automatically gets executed. That is the value of **a** and **b** gets passed to **x** and **y**, the two parameters of the constructor. And the addition result of these two numbers gets initialized to **add** variable. Finally the value of **add** gets printed on output using the statement:

```
System.out.println("\nResult = " +add);
```

available inside the constructor as its second statement.

## Same Program in Other Languages

- [C Add two Numbers](#)
- [C++ Add two Numbers](#)
- [Python Add two Numbers](#)