CSE TRAINING-II LABORATORY
TR-102

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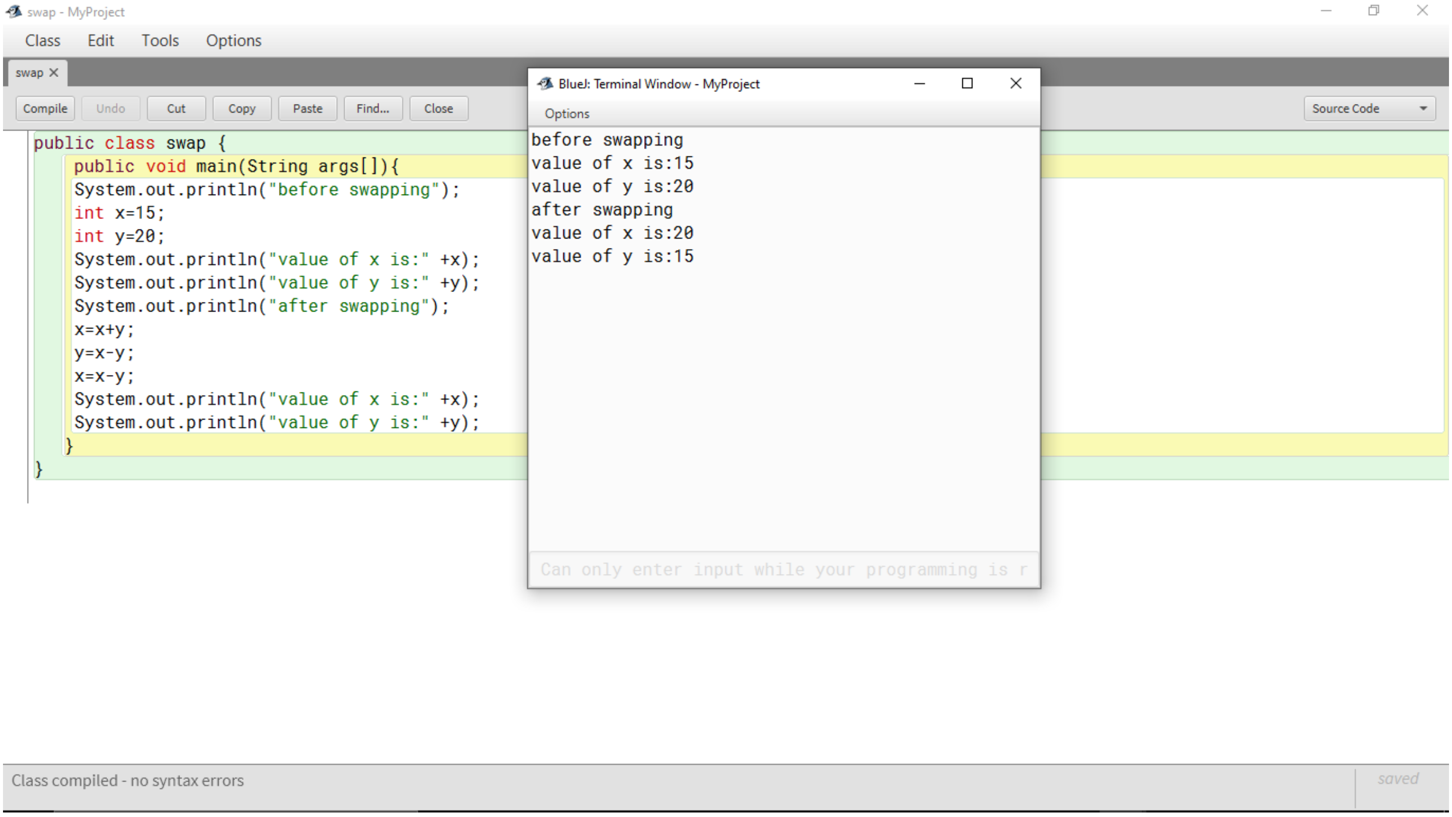
PROGRAM-1

Program to swap two numbers input by the user without using third variable.

```
public class swap {
   public void main(String args[]){
   System.out.println("before swapping");
   int x=15;
   int y=20;
   System.out.println("value of x is:" +x);
   System.out.println("value of y is:" +y);
   System.out.println("after swapping");
   x=x+y;
   y=x-y;
   x=x-y;
   System.out.println("value of x is:" +x);
   System.out.println("value of y is:" +y);
  }
}
```



```
public class swap {
    public void main(String args[]){
    System.out.println("before swapping");
    int x=15;
    int y=20;
    System.out.println("value of x is:" +x);
    System.out.println("value of y is:" +y);
    System.out.println("after swapping");
    x=x+y;
    y=x-y;
    x=x-y;
    System.out.println("value of x is:" +x);
    System.out.println("value of y is:" +y);
    }
}
```

```
before swapping
value of x is:15
value of y is:20
after swapping
value of x is:20
value of y is:15
```

Can only enter input while your programming is r

Class compiled - no syntax errors

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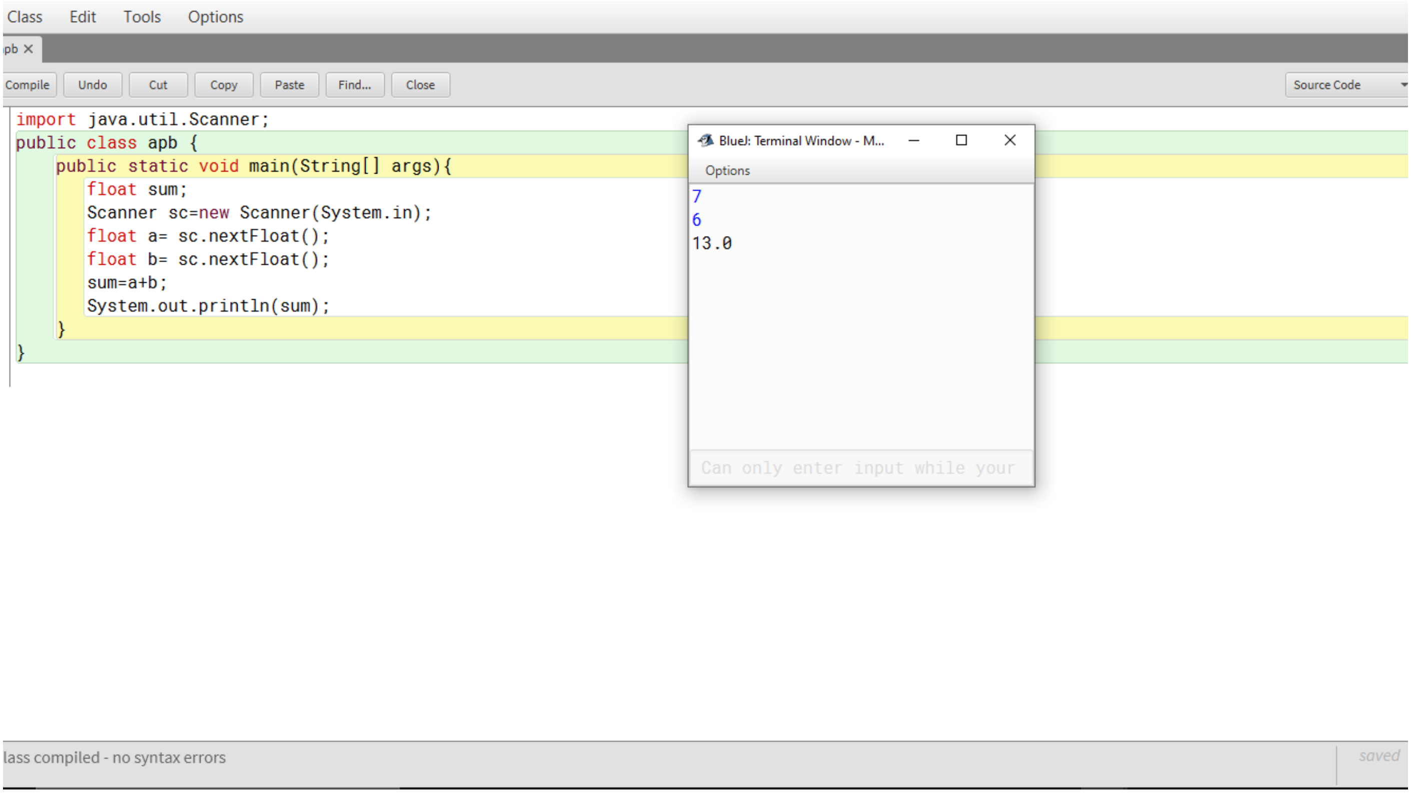
PROGRAM-2

Program to print the sum of digits of a number entered by the user.

```
import java.util.Scanner;
public class apb {
   public void main(String[] args){
      float sum;
      Scanner sc=new Scanner(System.in);
      float a= sc.nextFloat();
      float b= sc.nextFloat();
      sum=a+b;
      System.out.println(sum);
   }
}
```



```
import java.util.Scanner;
public class apb {
    public static void main(String[] args){
        float sum;
        Scanner sc=new Scanner(System.in);
        float a= sc.nextFloat();
        float b= sc.nextFloat();
        sum=a+b;
        System.out.println(sum);
    }
}
```

```
7
6
13.0
```

Can only enter input while your

lass compiled - no syntax errors

saved

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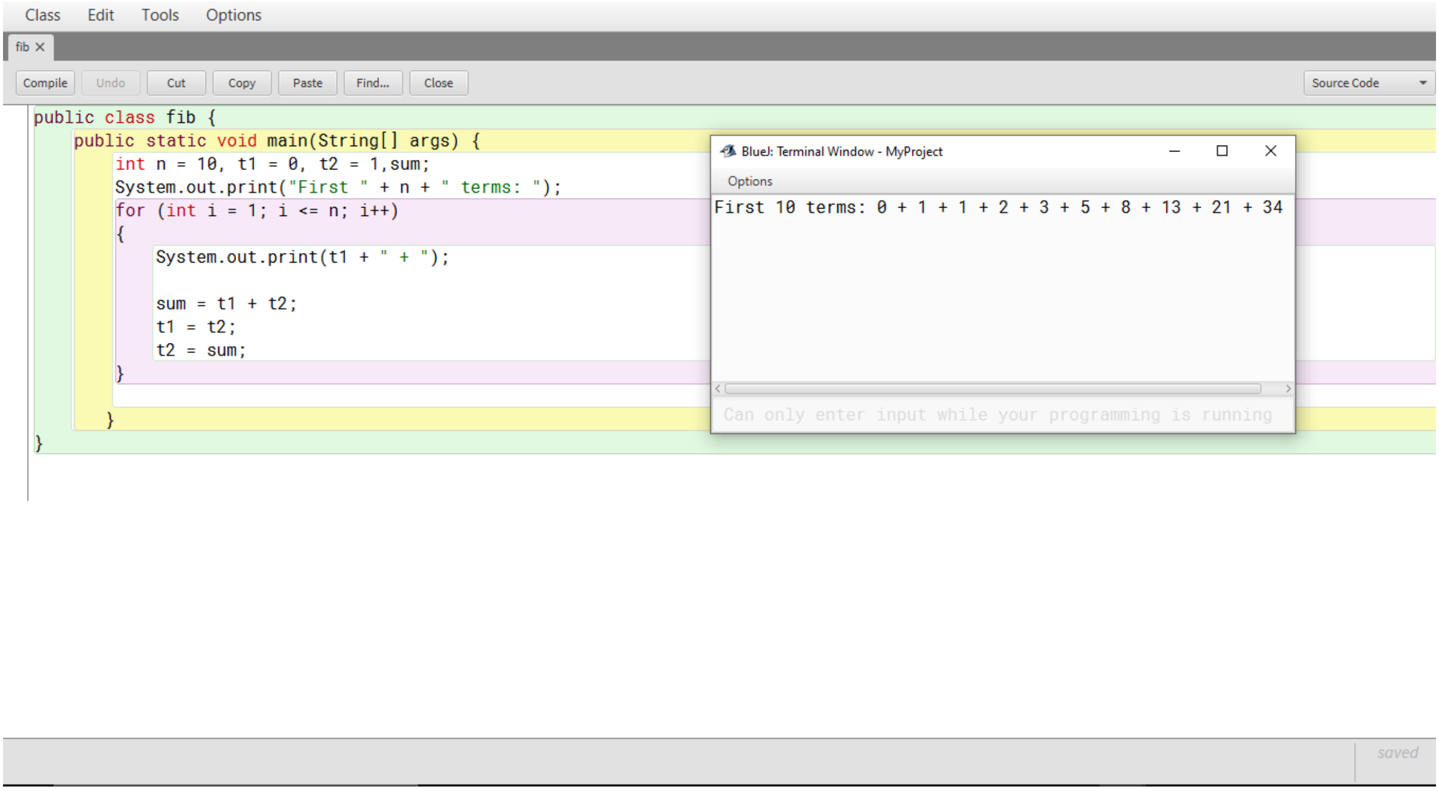
PROGRAM-3

Program to print Fibonacci series up to first ten terms.

```
public class fib {

    public static void main(String[] args) {

        int n = 10, t1 = 0, t2 = 1,sum;

        System.out.print("First " + n + " terms: ");

        for (int i = 1; i <= n; ++i) {

            System.out.print(t1 + " + ");

            sum = t1 + t2;

            t1 = t2;

            t2 = sum; }

}

}
```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Close
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Can only enter input while your programming is running
saved

```
public class fib {
     public static void main(String[] args) {
          int n = 10, t1 = 0, t2 = 1,sum;
          System.out.print("First " + n + " terms: ");
          for (int i = 1; i <= n; i++)
          {
               System.out.print(t1 + " + ");

               sum = t1 + t2;
               t1 = t2;
               t2 = sum;
          }

     }
}
```

```
First 10 terms: 0 + 1 + 1 + 2 + 3 + 5 + 8 + 13 + 21 + 34
```

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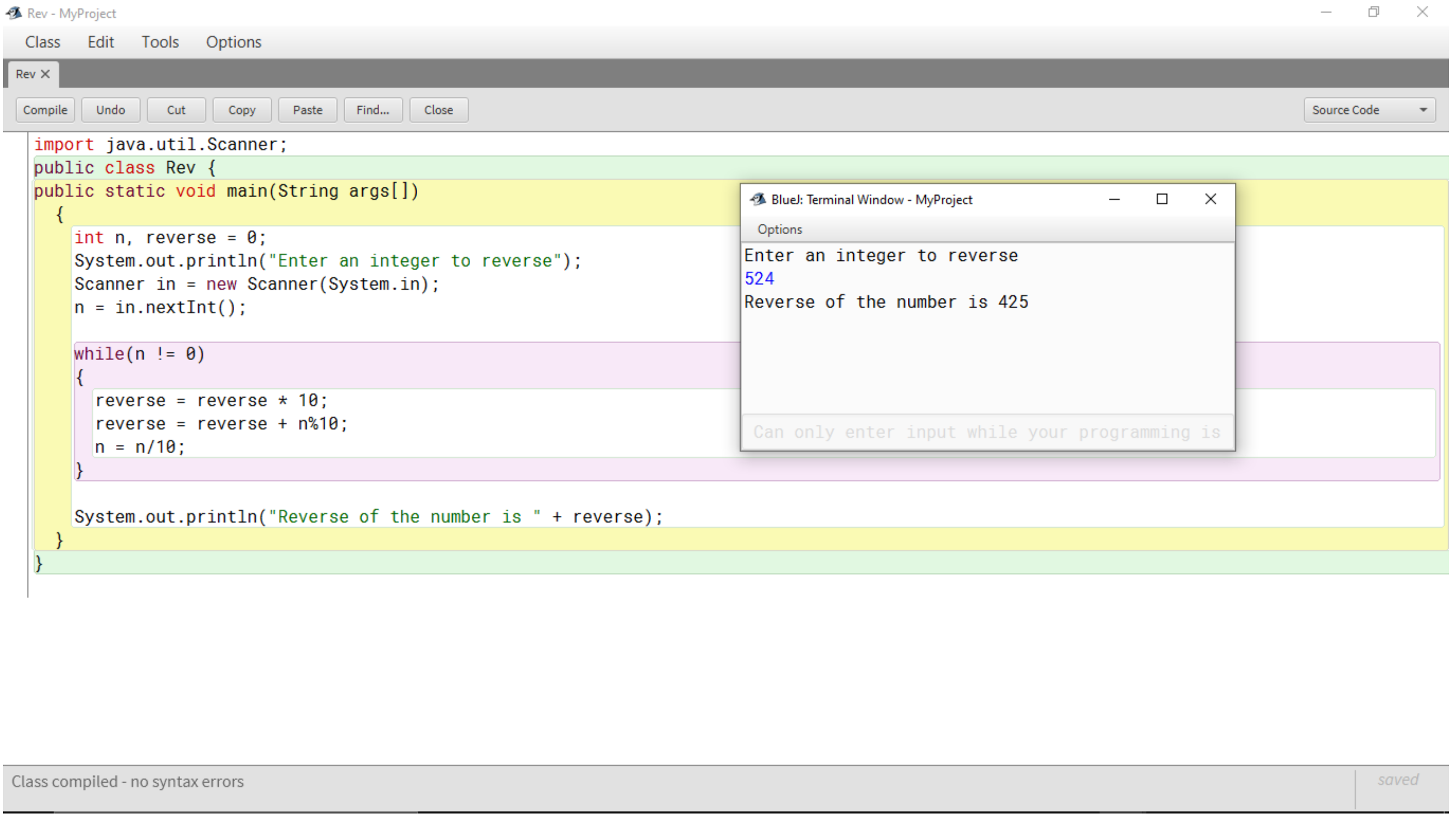
PROGRAM-4

Program to print the reverse of the number entered by the user.

```
import java.util.Scanner;

public class Rev {

public static void main(String args[]) {

    int n, reverse = 0;

    System.out.println("Enter an integer to reverse");

    Scanner in = new Scanner(System.in);

    n = in.nextInt();

    while(n != 0){

      reverse = reverse * 10;

      reverse = reverse + n%10;

      n = n/10;}

    System.out.println("Reverse of the number is " + reverse);}

}
```



```
import java.util.Scanner;
public class Rev {
public static void main(String args[])
   {
      int n, reverse = 0;
      System.out.println("Enter an integer to reverse");
      Scanner in = new Scanner(System.in);
      n = in.nextInt();

      while(n != 0)
      {
        reverse = reverse * 10;
        reverse = reverse + n%10;
        n = n/10;
      }

      System.out.println("Reverse of the number is " + reverse);
   }
}
```

```
Enter an integer to reverse
524
Reverse of the number is 425
```

Class compiled - no syntax errors

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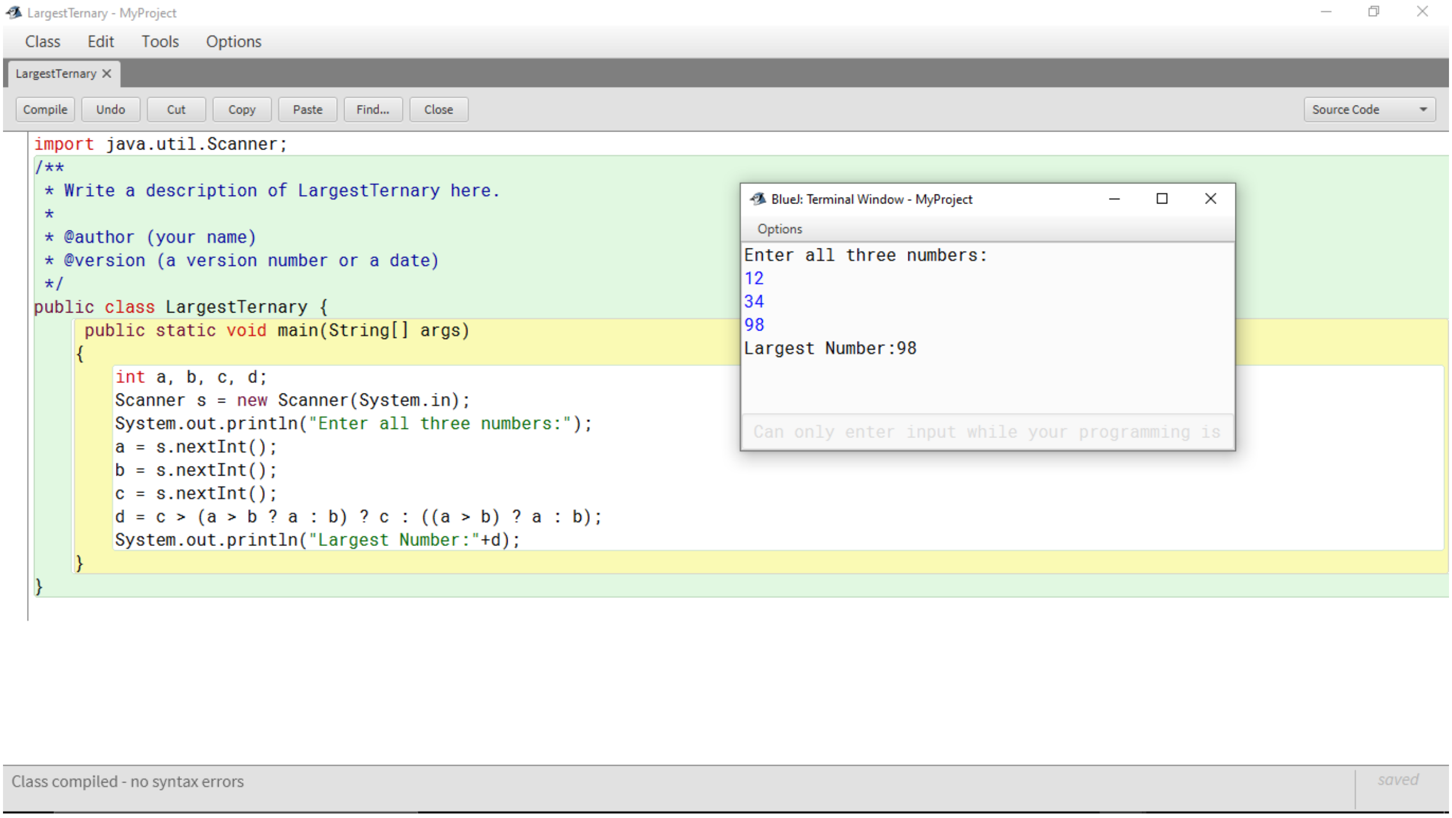
PROGRAM-5

Program to find the largest of three numbers using conditional statement.

```
import java.util.Scanner;

 public class LargestTernary {

     public static void main(String[] args) {

        int a, b, c, d;

        Scanner s = new Scanner(System.in);

        System.out.println("Enter all three numbers:");

        a = s.nextInt();

        b = s.nextInt();

        c = s.nextInt();

        d = c > (a > b ? a : b) ? c : ((a > b) ? a : b);

        System.out.println("Largest Number:"+d);

    }

}
```



```
import java.util.Scanner;
/**
 * Write a description of LargestTernary here.
 *
 * @author (your name)
 * @version (a version number or a date)
 */
public class LargestTernary {
    public static void main(String[] args)
    {
        int a, b, c, d;
        Scanner s = new Scanner(System.in);
        System.out.println("Enter all three numbers:");
        a = s.nextInt();
        b = s.nextInt();
        c = s.nextInt();
        d = c > (a > b ? a : b) ? c : ((a > b) ? a : b);
        System.out.println("Largest Number:"+d);
    }
}
```

```
Enter all three numbers:
12
34
98
Largest Number:98
```

Can only enter input while your programming is

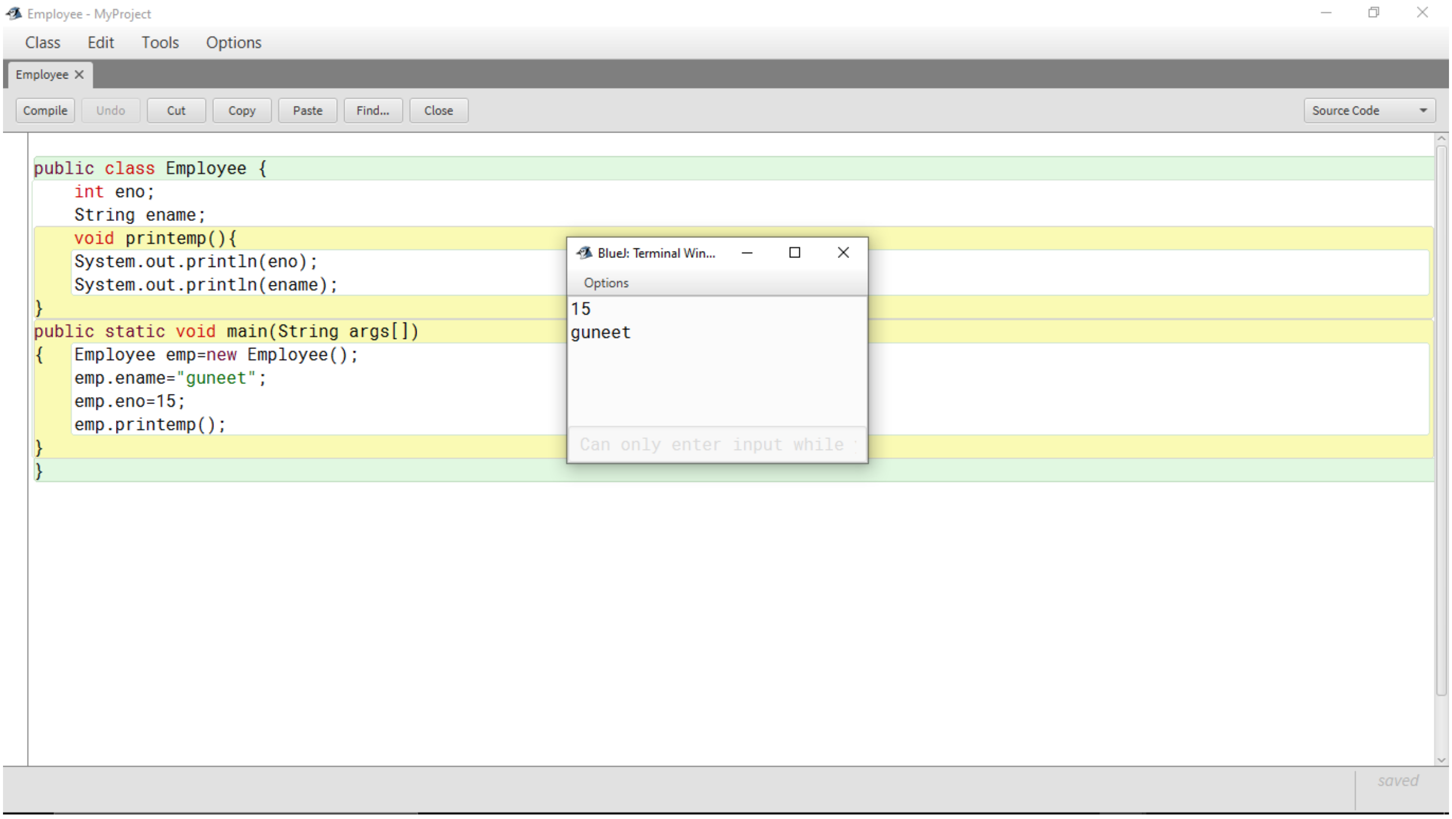
Class compiled - no syntax errors

saved

PROGRAM-6

Program to create a class and call member functions.

```
public class Employee {

   int eno;

   String ename;

   void printemp(){

   System.out.println(eno);

   System.out.println(ename);

}

public static void main(String args[]) {

   Employee emp=new Employee();

   emp.ename="guneet";

   emp.eno=15;

   emp.printemp();}

}
```



```
public class Employee {
    int eno;
    String ename;
    void printemp(){
    System.out.println(eno);
    System.out.println(ename);
}
public static void main(String args[])
{   Employee emp=new Employee();
    emp.ename="guneet";
    emp.eno=15;
    emp.printemp();
}
}
```

```
15
guneet
```

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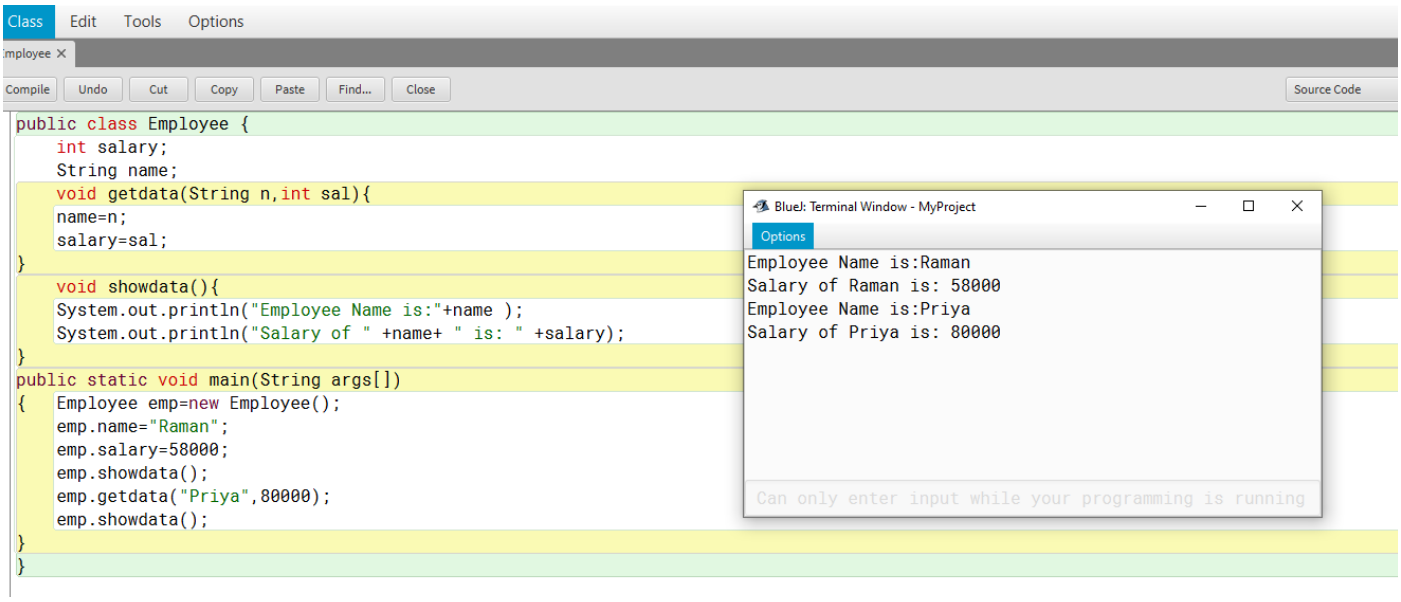
PROGRAM-7

Program to implement employee class with data members i.e. name and salary and member functions i.e. getdata and showdata.

```
public class Employee {

    int salary;

    String name;

    void getdata(String n,int sal){

    name=n;

    salary=sal; }

    void showdata(){

    System.out.println("Employee Name is:"+name );

    System.out.println("Salary of " +name+ " is: " +salary); }

public static void main(String args[]){

   Employee emp=new Employee();

    emp.name="Raman";

    emp.salary=58000;

    emp.showdata();

    emp.getdata("Priya",80000);

    emp.showdata(); }

}
```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Copy
Paste
Find...
Close
Source Code
BlueJ: Terminal Window - MyProject
Options
Can only enter input while your programming is running

```
public class Employee {
    int salary;
    String name;
    void getdata(String n,int sal){
    name=n;
    salary=sal;
}
    void showdata(){
    System.out.println("Employee Name is:"+name );
    System.out.println("Salary of " +name+ " is: " +salary);
}
public static void main(String args[])
{   Employee emp=new Employee();
    emp.name="Raman";
    emp.salary=58000;
    emp.showdata();
    emp.getdata("Priya",80000);
    emp.showdata();
}
}
```

```
Employee Name is:Raman
Salary of Raman is: 58000
Employee Name is:Priya
Salary of Priya is: 80000
```

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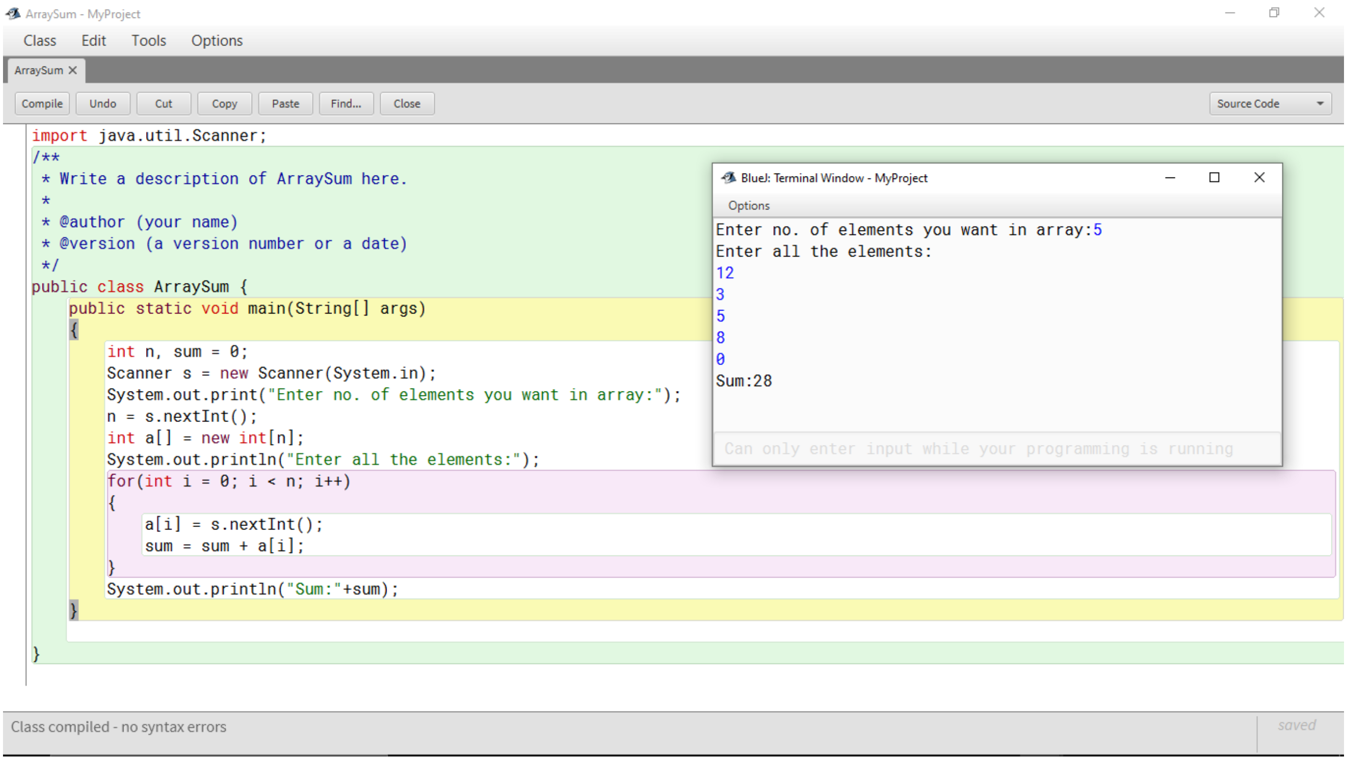
PROGRAM-8

Program to enter elements in array and display the array.

```
import java.util.Scanner;

public class ArraySum {

    public static void main(String[] args) {

        int n, sum = 0;

        Scanner s = new Scanner(System.in);

        System.out.print("Enter no. of elements you want in array:");

        n = s.nextInt();

        int a[] = new int[n];

        System.out.println("Enter all the elements:");

        for(int i = 0; i < n; i++){

            a[i] = s.nextInt();

            sum = sum + a[i];}

        System.out.println("Sum:"+sum); }

}
```



```
import java.util.Scanner;
/**
 * Write a description of ArraySum here.
 *
 * @author (your name)
 * @version (a version number or a date)
 */
public class ArraySum {
    public static void main(String[] args)
    {
        int n, sum = 0;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter no. of elements you want in array:");
        n = s.nextInt();
        int a[] = new int[n];
        System.out.println("Enter all the elements:");
        for(int i = 0; i < n; i++)
        {
            a[i] = s.nextInt();
            sum = sum + a[i];
        }
        System.out.println("Sum:"+sum);
    }

}
```

```
Enter no. of elements you want in array:5
Enter all the elements:
12
3
5
8
0
Sum:28
```

Can only enter input while your programming is running

Class compiled - no syntax errors

saved

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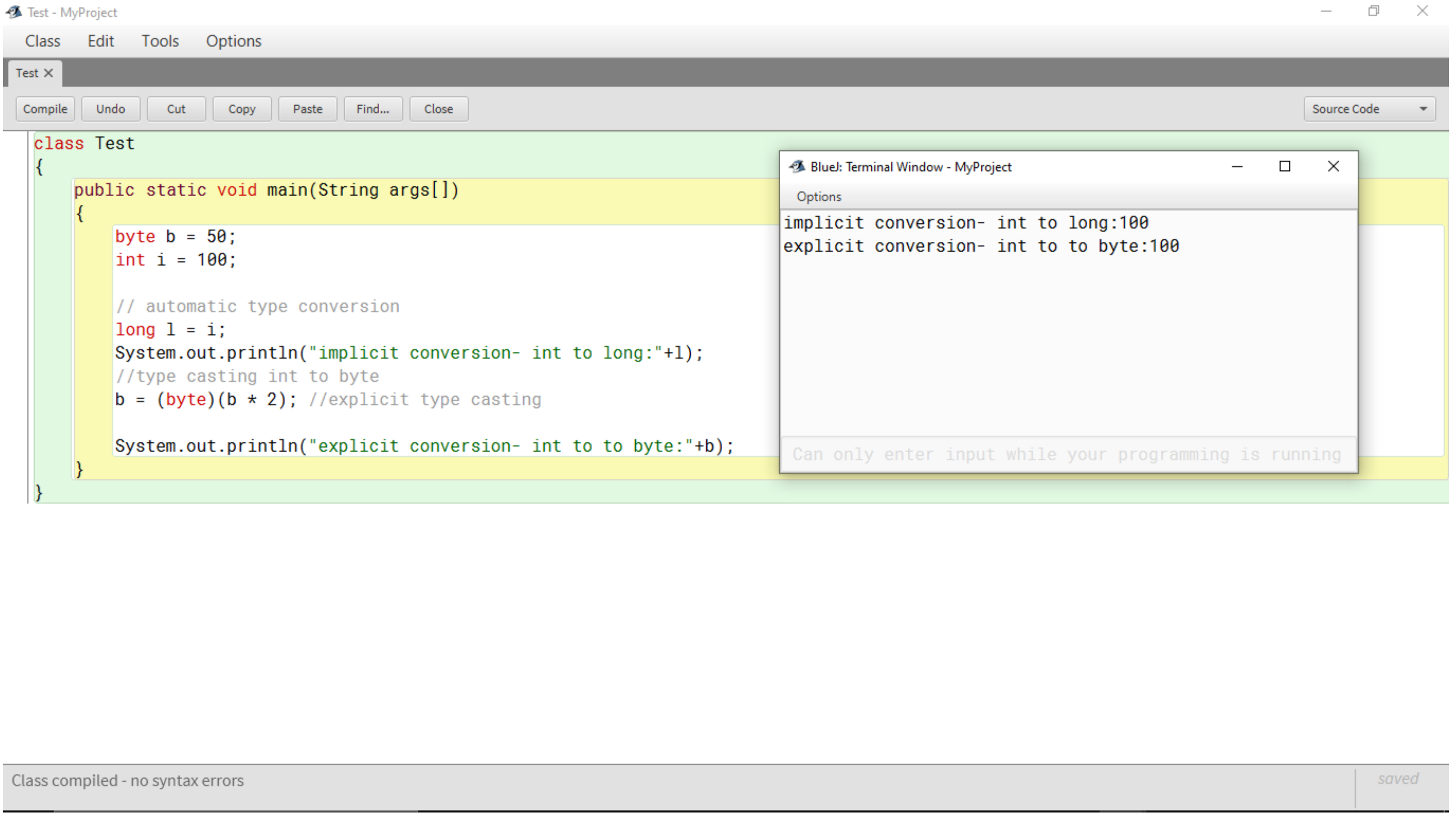
PROGRAM-9

Program to show implicit and explicit type casting.

```
class Test
{
    public static void main(String args[])
    {
        byte b = 50;
        int i = 100;

        // automatic type conversion
        long l = i;
        System.out.println("implicit conversion- int to long:"+l);
        //type casting int to byte
        b = (byte)(b * 2); //explicit type casting

        System.out.println("explicit conversion- int to to byte:"+b);
    }
}
```



```
class Test
{
    public static void main(String args[])
    {
        byte b = 50;
        int i = 100;

        // automatic type conversion
        long l = i;
        System.out.println("implicit conversion- int to long:"+l);
        //type casting int to byte
        b = (byte)(b * 2); //explicit type casting

        System.out.println("explicit conversion- int to to byte:"+b);
    }
}
```

```
implicit conversion- int to long:100
explicit conversion- int to to byte:100
```

Class compiled - no syntax errors

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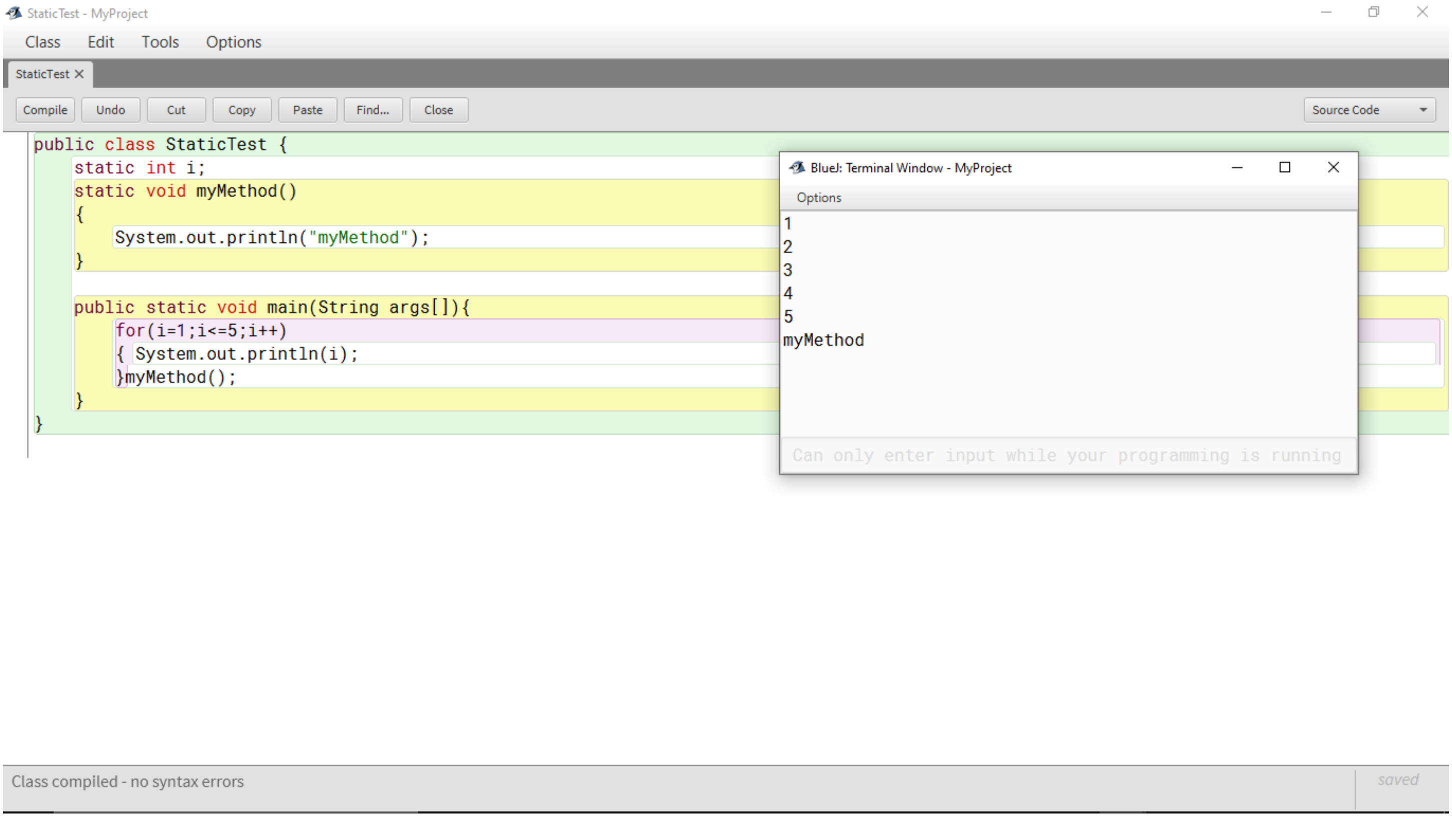
PROGRAM-10

Program to demonstrate the use of static variables and static methods.

```
public class StaticTest {

    static int i;

    static void myMethod()

    {

        System.out.println("myMethod");

    }



    public static void main(String args[]){

        for(i=1;i<=5;i++)

        { System.out.println(i);

        }myMethod();

    }

}
```



```
public class StaticTest {
    static int i;
    static void myMethod()
    {
        System.out.println("myMethod");
    }

    public static void main(String args[]){
        for(i=1;i<=5;i++)
        { System.out.println(i);
        }myMethod();
    }
}
```

```
1
2
3
4
5
myMethod
```

Can only enter input while your programming is running

Class compiled - no syntax errors