



Project Explorer

- javaBasics_NRIFT (in HelloWorldProj) [HelloWorldProj master]
 - JRE System Library [JavaSE-17]
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 - (default package)
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 - assignment1_d5
 - assignment2_d4
 - day4
 - day5
 - day6_collections
 - Account.java
 - AccountHolder.java
 - AccountTester.java
 - ArrayListAssignment.java
 - CollectionsDemo.java
 - Employee.java
 - GenericList.java
 - HashMapDemo.java
 - HashSetDemo.java
 - LinkedHashSetDemo.java
 - ThreadDemo.java
 - TreeSetDemo.java
 - VectorDemo.java
 - WrapperDemo.java
 - day6_gui
 - Calculator.java
 - MyCalculator.java
 - Design
 - material
 - stock

Employee.java ArrayListAssignment.java GenericList.java

```
1 package day6_collections;
2
3 import java.util.ArrayList;
4
5
6 public class ArrayListAssignment {
7     ArrayList<Employee> l;
8
9     public ArrayListAssignment() {
10        // TODO Auto-generated constructor stub
11        this.l = new ArrayList<Employee>();
12    }
13
14    private void insert(Scanner in) {
15        // TODO Auto-generated method stub
16        System.out.print("Id:");
17        int id=in.nextInt();
18        System.out.print("Name:");
19        String name=in.next();
20        System.out.print("Salary:");
21        double salary=in.nextDouble();
22        Employee e=new Employee(id,name,salary);
23        l.add(e);
24        System.out.println("Added");
25    }
26
27    private void display(Scanner in) {
28        // TODO Auto-generated method stub
29        for(Employee i:l) {
30            System.out.println(i);
31        }
32    }
33
34    private void search(Scanner in) {
35        // TODO Auto-generated method stub
36        System.out.print("Search\nEnter Id:");
37        int id=in.nextInt();
38        for(Employee i:l) {
39            if(i.getEmpId()==id) {
40                System.out.println(i);
41                return;
42            }
43        }
44        System.out.println("Not Found");
45    }
```

Console

```
<terminated> ArrayListAssignment [Java Application] C:\Program Files\Java\jdk-17\bin\java.exe
1. Insert
2. Display
3. Search
4. Delete
5. Update
6. Exit
Enter Your Choice: 1
Id:1
Name:A
Salary:25000
Added
1. Insert
2. Display
3. Search
4. Delete
5. Update
6. Exit
Enter Your Choice: 1
Id:2
Name:B
Salary:25000
Added
1. Insert
2. Display
3. Search
4. Delete
5. Update
6. Exit
Enter Your Choice: 3
Search
Enter Id:2
Employee [empId=2, name=B, salary=25000.0]
1. Insert
2. Display
3. Search
4. Delete
5. Update
6. Exit
Enter Your Choice: 4
Delete
Enter Id:1
Deleted
```

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```
1 package day6_collections;
2
3 import java.util.ArrayList;
4
5
6
7 public class GenericList <T> {
8     ArrayList<T> l;
9
10    public GenericList() {
11        // TODO Auto-generated constructor stub
12        this.l = new ArrayList<T>();
13    }
14
15    private void insert(T e) {
16        // TODO Auto-generated method stub
17        l.add(e);
18        // System.out.println("Added");
19    }
20
21    private void display() {
22        // TODO Auto-generated method stub
23        for(T i:l) {
24            System.out.println(i);
25        }
26        Iterator<T> itr=l.iterator();
27        while(itr.hasNext())System.out.println(itr.next());
28    }
29
30
31
32    public static void main(String[] args) {
33        // Testing here
34        GenericList<String> a=new GenericList<String>();
35        a.insert("A");
36        a.insert("B");
37        a.insert("C");
38        a.insert("D");
39        a.insert("E");
40        a.insert("F");
41        a.insert("G");
42        a.insert("H");
43        a.display();
44        GenericList<Integer> b=new GenericList<Integer>();
45        b.insert(1);
46        b.insert(2);
```

Console x

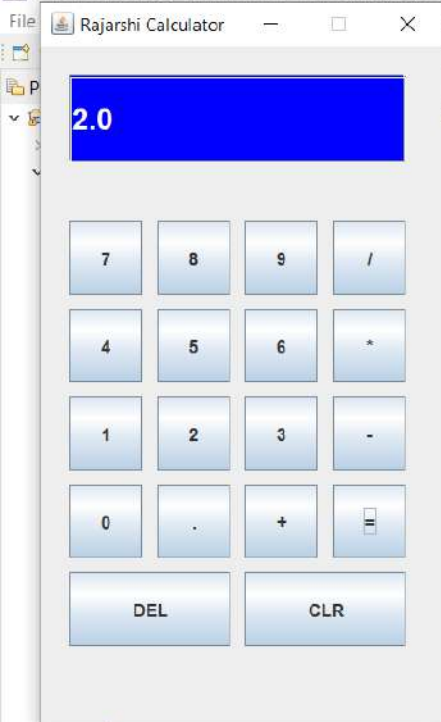
<terminated> GenericList [Java Application] C:\Program Files\U

```
A
B
C
D
E
F
G
H
1
2
3
4
5
1.0
2.0
3.0
4.0
5.0
1.5
2.5
3.5
4.5
5.5
```

Writab

Smart Insert

30 : 1 : 606



- > WrapperDemo.java
- > day6_gui
 - > Calculator.java
 - > MyCalculator.java
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```
File Edit Run Window Help
dProj master]

Employee.java ArrayListAssignment.java GenericList.java MyCalculator.java x

1 package day6_gui;
2
3 import java.awt.Color;
4
5
6
7
8
9
10 public class MyCalculator implements ActionListener {
11     JFrame f; // = new JFrame();
12     JTextField t;
13     JButton b1, b2, b3, b4, b5, b6, b7, b8, b9, b0, badd, bsub, bdiv, bmul, bdec, beq;
14     static String b = "", o = "";
15
16
17 public MyCalculator() {
18     // TODO Auto-generated constructor stub
19     f = new JFrame("Rajarshi Calculator");
20
21     f.setVisible(true);
22     f.setLayout(null);
23     f.setBounds(20, 20, 290, 500);
24     f.setResizable(false);
25     Font fo = new Font("Arial", Font.BOLD, 20);
26     t = new JTextField();
27     t.setFont(fo);
28     t.setBackground(Color.BLUE);
29     t.setForeground(Color.WHITE);
30     t.setBounds(20, 20, 230, 60);
31     t.setText("0");
32     f.add(t);
33     b1 = new JButton("1");
34     b2 = new JButton("2");
35     b3 = new JButton("3");
36     b4 = new JButton("4");
37     b5 = new JButton("5");
38     b6 = new JButton("6");
39     b7 = new JButton("7");
40     b8 = new JButton("8");
41     b9 = new JButton("9");
42     b0 = new JButton("0");
43     badd = new JButton("+");
44     bsub = new JButton("-");
45     bmul = new JButton("*");
46     bdiv = new JButton("/");
47     bdec = new JButton(".");
48     beq = new JButton("=");
49     bdel = new JButton("DEL");
50     bclr = new JButton("CLR");
51
52     f.add(b1); f.add(b2); f.add(b3); f.add(b4); f.add(b5); f.add(b6); f.add(b7); f.add(b8); f.add(b9); f.add(b0);
53     f.add(badd); f.add(bsub); f.add(bdiv); f.add(bmul); f.add(bdec); f.add(beq); f.add(bdel); f.add(bclr);
54 }
```

Console x

MyCalculator [Java Application] C:\Program Files\Java\jdk-17\bin\java.exe

```
1.0
1.0
+
```

Writable

Smart Insert

1:1:0