

```

1 import java.util.ArrayList;
2
3
4 public class javaAssignment2 {
5     // 1. Write a Java program to reverse a string with and without reverse() function
6     public static void main(String[] args) {
7         String str = "ABCD";
8         String rev = "";
9         int len= str.length();
10        for(int i=len-1; i>=0; i--) {
11            rev=rev+str.charAt(i);
12        }
13        System.out.println("with reverse function " + rev);
14        String input = "Java String"; //11
15        String result="";
16        for(int i=input.length()-1; i>=0; i--) {
17            result=result+ input.charAt(i);
18        }
19        System.out.println("Without reverse function =" +result);
20
21        //2. Write a Java Program to find prime numbers between 1 to 100
22        for (int no=1; no<=100; no++)
23        {
24            int temp=0;
25            for(int i=2; i<=no-1; i++)
26            {
27                if(no%i==0) {
28                    temp=temp+1;
29                }
30            }
31            if(temp==0) {
32                System.out.println("Prime Number is " + no);
33            }
34        }
35        //3. Write a Java Program to handle given unchecked exception
36        //a. ArrayIndexOutOfBoundsException
37        int a[];
38        a=new int[3]; // array maximum index is 3
39        // a[4]=7;

```

```

<terminated> javaAssignment2 [Java Application] C:\Users\DELL\p2\pool\plugins\org.e
with reverse function DCBA
Without reverse function =gnirtS avaJ
Prime Number is 1
Prime Number is 2
Prime Number is 3
Prime Number is 5
Prime Number is 7
Prime Number is 11
Prime Number is 13
Prime Number is 17
Prime Number is 19
Prime Number is 23
Prime Number is 29
Prime Number is 31
Prime Number is 37
Prime Number is 41
Prime Number is 43
Prime Number is 47
Prime Number is 53
Prime Number is 59
Prime Number is 61
Prime Number is 67
Prime Number is 71
Prime Number is 73
Prime Number is 79
Prime Number is 83
Prime Number is 89
Prime Number is 97

```



Pack... X Type...

Automation

JRE System Library [JavaSE-2]

src

(default package)

absoluteRelative.java

actionMouse.java

assignment21.java

assignment7.java

assignment8.java

assignment9.java

basicAction.java

BrowserActions.java

dragAndDrop.java

handleChildWindow.j

javaAssignment2.java

ReadByName.java

readByTagname.java

multipallInheritance

A.java

B.java

C.java

Referenced Libraries

Automation > src > (default package) > javaAssignment2 > main(String[]) : void

```

33 }
34 }
35 //3. Write a Java Program to handle given unchecked exception
36 //a. ArrayIndexOutOfBoundsException
37 int a[];
38 a=new int[3]; // array maximum index is 3
39 a[4]=7;
40 System.out.println(a[4]);
41 // java.lang.ArrayIndexOutOfBoundsException: Index 4 out of bounds for length 3
42
43
44
45 // b. NullPointerException
46 // String st = null;
47 // st = st.toUpperCase();
48 // System.out.println(st);
49
50 // Cannot invoke "String.toUpperCase()" because "st" is null
51 //java.lang.NullPointerException
52
53 //4. Write a Java Program to sort the ArrayList in Ascending order
54 ArrayList<Integer>arrList =new ArrayList<Integer>();
55 System.out.println("Adding elements to ArrayList...");
56 arrList.add(7);
57 arrList.add(3);
58 arrList.add(5);
59 arrList.add(1);
60 arrList.add(8);
61 arrList.add(2);
62 arrList.add(9);
63
64 Collections.sort(arrList);
65 System.out.println("the ArrayList in Ascending order "+arrList);
66
67 // 5. Write a Java Program to implement multiple inheritance
68
69
70

```

Console X

<terminated> javaAssignment2 [Java Application] C:\Users\DELL\p2\pool\plugins\org.e

```

in" java.lang.ArrayIndexOutOfBoundsException: Index 4 out of bo
t2.main(javaAssignment2.java:39)

```

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< >

Writable

Smart Insert

50 : 43 : 1387



Automation > src > (default package) > javaAssignment2 > main(String[]) : void

```
33  
34  
35 //3. Write a Java Program to handle given unchecked exception  
36 //a. ArrayIndexOutOfBoundsException  
37 // int a[];  
38 // a=new int[3]; // array maximum index is 3  
39 // a[4]=7;  
40 // System.out.println(a[4]);  
41 // java.lang.ArrayIndexOutOfBoundsException: Index 4 out of bounds for length 3  
42  
43  
44  
45 // b. NullPointerException  
46 String st = null;  
47 st =st.toUpperCase();  
48 System.out.println(st);  
49  
50 // Cannot invoke "String.toUpperCase()" because "st" is null  
51 //java.lang.NullPointerException  
52  
53 //4. Write a Java Program to sort the ArrayList in Ascending order  
54 ArrayList<Integer>arrList =new ArrayList<Integer>();  
55 System.out.println("Adding elements to ArrayList...");  
56 arrList.add(7);  
57 arrList.add(3);  
58 arrList.add(5);  
59 arrList.add(1);  
60 arrList.add(8);  
61 arrList.add(2);  
62 arrList.add(9);  
63  
64 Collections.sort(arrList);  
65 System.out.println("the ArrayList in Ascending order "+arrList);  
66  
67 // 5. Write a Java Program to implement multiple inheritance  
68  
69  
70
```

<terminated> javaAssignment2 [Java Application] C:\Users\DELL\p2\pool\plugins\org.e

in" java.lang.NullPointerException: Cannot invoke "String.toUp  
rt2.main(javaAssignment2.java:47)



Pack... X Type...

Automation  
 > JRE System Library [JavaSE-2]  
 > src  
     > (default package)  
         > absoluteRelative.java  
         > actionMouse.java  
         > assignment21.java  
         > assignment7.java  
         > assignment8.java  
         > assignment9.java  
         > basicAction.java  
         > BrowserActions.java  
         > dragAndDrop.java  
         > handleChildWindow.j  
         > javaAssignment2.java  
         > ReadByName.java  
         > readByTagname.java  
     > multipallInheritance  
         > A.java  
         > B.java  
         > C.java  
 > Referenced Libraries

Automation > src > (default package) > javaAssignment2 > main(String[]) : void

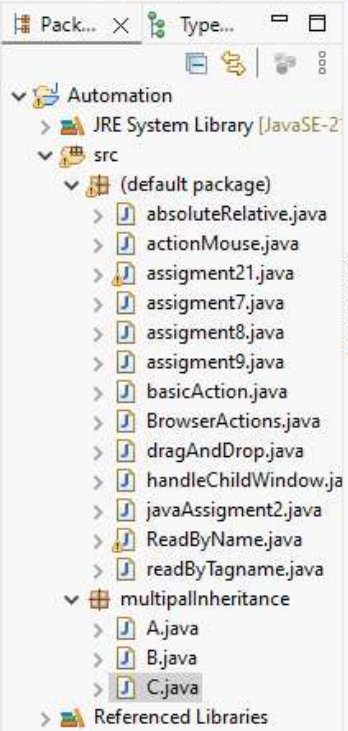
```

39 //      a[4]=/;
40 //      System.out.println(a[4]);
41 //      java.lang.ArrayIndexOutOfBoundsException: Index 4 out of bounds for length 3
42
43
44
45 //      b.NullPointerException
46 //      String st = null;
47 //      st =st.toUpperCase();
48 //      System.out.println(st);
49
50 //      Cannot invoke "String.toUpperCase()" because "st" is null
51 //java.lang.NullPointerException
52
53 //4.Write a Java Program to sort the ArrayList in Ascending order
54 ArrayList<Integer>arrList =new ArrayList<Integer>();
55 System.out.println("Adding elements to ArrayList...");
56 arrList.add(7);
57 arrList.add(3);
58 arrList.add(5);
59 arrList.add(1);
60 arrList.add(8);
61 arrList.add(2);
62 arrList.add(9);
63
64 Collections.sort(arrList);
65 System.out.println("the ArrayList in Ascending order "+arrList);
66
67 // 5.Write a Java Program to implement multiple inheritance
68
69
70
71
72
73
74
75
76
    
```

Console X

```

<terminated> javaAssignment2 [Java Application] C:\Users\DELL\p2\pool\plugins\org.e
reverse String isDCBA
gnirtS avaJ
Prime Number is 1
Prime Number is 2
Prime Number is 3
Prime Number is 5
Prime Number is 7
Prime Number is 11
Prime Number is 13
Prime Number is 17
Prime Number is 19
Prime Number is 23
Prime Number is 29
Prime Number is 31
Prime Number is 37
Prime Number is 41
Prime Number is 43
Prime Number is 47
Prime Number is 53
Prime Number is 59
Prime Number is 61
Prime Number is 67
Prime Number is 71
Prime Number is 73
Prime Number is 79
Prime Number is 83
Prime Number is 89
Prime Number is 97
Adding elements to ArrayList...
the ArrayList in Ascending order [1, 2, 3, 5, 7, 8, 9]
    
```



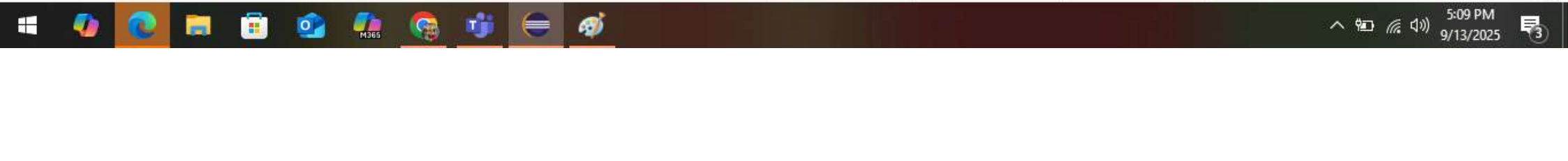
Automation > src > multipalInheritance > A > addition(): void

```

1 package multipalInheritance;
2
3 public class A {
4     int no1=100;
5     int no2=200;
6     int res;
7
8     void addition() {
9         res=no1+no2;
10        System.out.println("Addition of 2 Number "+res);
11    }
12
13 }
14

```

5. Write a Java Program to implement multiple inheritance







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multipalInheritance

A.java

B.java

C.java

Referenced Libraries

Automation > src > multipalInheritance > B > main(String[]): void

```

1 package multipalInheritance;
2
3 public class B extends A {
4     int x=10;
5     int y=5;
6     int result;
7
8     void multiplication () {
9         result= x*y;
10        System.out.println("Multiplication result =" +result);
11    }
12
13    public static void main(String[] args) {
14        B bobj= new B();
15        bobj.multiplication();
16        bobj.addition();
17        System.out.println(bobj.no1);
18        System.out.println(bobj.no2);
19        System.out.println(bobj.x);
20        System.out.println(bobj.y);
21    }
22
23
24 }
25

```

Writable

Smart Insert

25 : 1 : 566



Pack... X Type...

Automation

JRE System Library [JavaSE-2]

src

(default package)

absoluteRelative.java

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readByTagname.java

multipalInheritance

A.java

B.java

C.java

Referenced Libraries

Automation > src > multipalInheritance > C > main(String[]): void

```

1 package multipalInheritance;
2
3 public class C extends A, B {
4     double p= 5;
5     double q= 2;
6     double r;
7
8     void division() {
9         r = p/q ;
10        System.out.println("division res= "+r);
11    }
12
13
14
15    public static void main(String[] args) {
16
17
18    }
19
20
21

```

Multipal Inheritance does not support java

Writable

Smart Insert

18 : 6 : 252



```

1 package multipalInheritance;
2
3 public class C extends B{
4     double p= 5;
5     double q= 2;
6     double r;
7
8     void division() {
9         r = p/q ;
10        System.out.println("division res= "+r);
11    }
12
13
14
15    public static void main(String[] args) {
16        C cobj = new C();
17        cobj.addition();
18        cobj.multiplication();
19        cobj.division();
20
21    }
22
23
24 }
25

```

```

<terminated> C [Java Application] C:\Users\DELL\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.wi
Addition of 2 Number 300
Multiplication result =50
division res= 2.5

```