

1. Write a program to reverse the String (use char[] or String built in method)

```

ReverseStr.java × ReverseInBuilt.java
3 import java.util.Scanner;
4
5 //1. Write a program to reverse the String (use char[] or String built in method)
6 public class ReverseStr {
7
8     public static void main(String[] args) {
9         String str;
10        Scanner sc=new Scanner(System.in);
11        System.out.print("Enter a String: ");
12        str=sc.nextLine();
13        System.out.println("-----");
14        System.out.print("After reverse string: ");
15        char ch[]=str.toCharArray();
16        String rev="";
17        for(int i=ch.length-1;i>=0;i--){
18            rev+=ch[i];
19        }
20        System.out.println(rev);
21    }
22 }
23 }
24
Problems Javadoc Declaration Console Coverage Call Hierarchy Servers
<terminated> ReverseStr (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 28, 2022, 4:29:40 PM – 4:29:51 PM)
Enter a String: java
-----
After reverse string: avaj

```

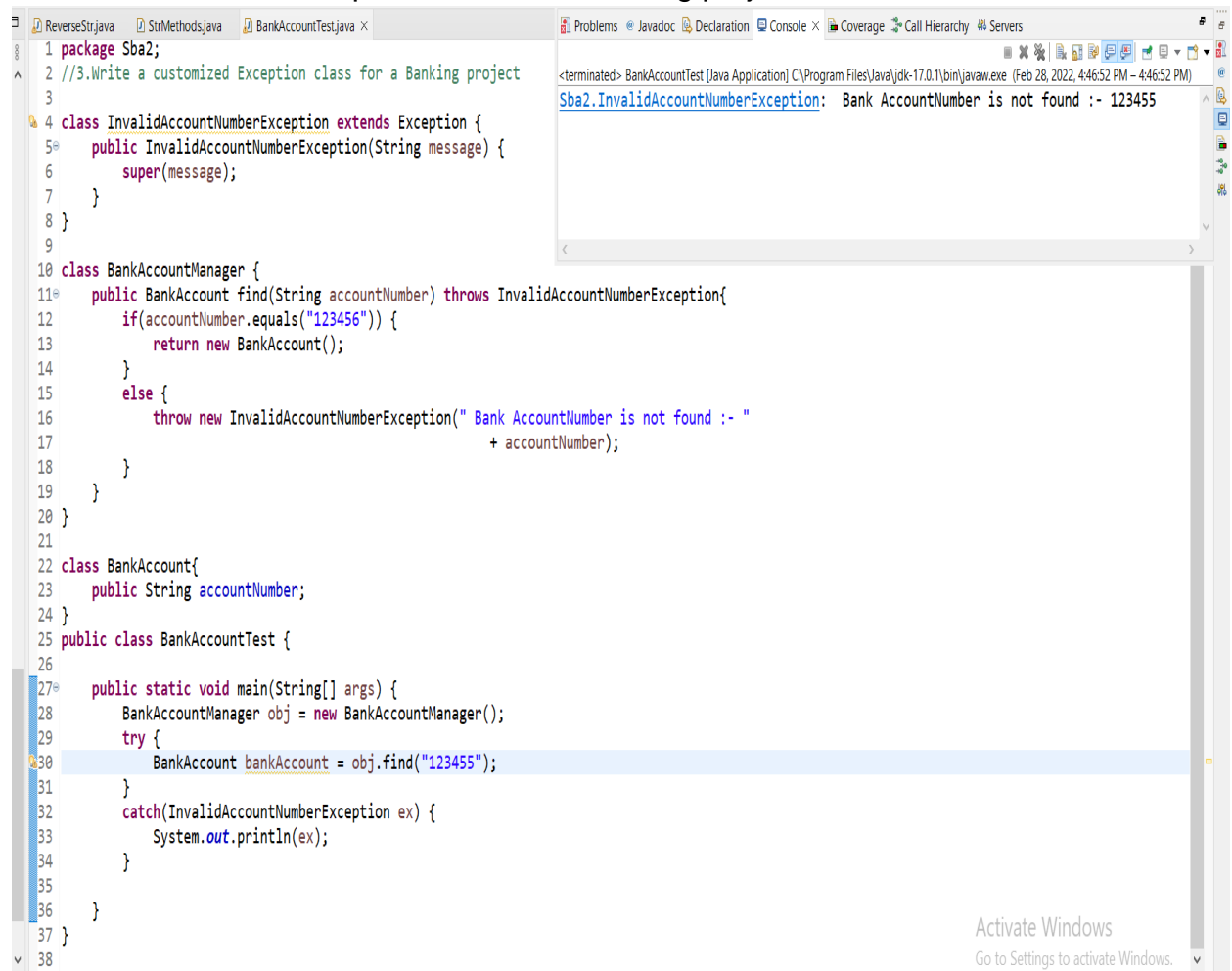
2. Write programs to depict the usage of contains(), length(), replace(), concat(), equals()

```

ReverseStr.java × StrMethods.java ×
1 //2. Write programs to depict the usage of contains(),
2 //length(), replace(), concat(), equals()
3
4 package Sba2;
5
6 public class StrMethods {
7
8     public static void main(String[] args) {
9         String s1="Amazon";
10        String s2="Hello";
11        String s3="World";
12        String s4="good morning";
13        System.out.println("contains good in "+s4);
14        System.out.println(s4.contains("good"));
15        System.out.println("-----");
16        System.out.println("length of "+s1+" is ");
17        System.out.println(s1.length());
18        System.out.println("-----");
19        System.out.println("replace "+s4+" to");
20        System.out.println(s4.replace("good morning", "good afternoon"));
21        System.out.println("-----");
22        System.out.println("concat "+s2+" and "+s3);
23        System.out.println(s2.concat(s3));
24        System.out.println("-----");
25        System.out.println(s1+" and "+s2+" are equal");
26        System.out.println(s1.equals(s2));
27    }
28 }
29 }
30
Problems Java... Decla... Cons... Cove... Call... Serve...
<terminated> StrMethods [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe
contains good in good morning
true
-----
length of Amazon is
6
-----
replace good morning to
good afternoon
-----
concat Hello and World
HelloWorld
-----
Amazon and Hello are equal
false

```

### 3. Write a customized Exception class for a Banking project



```
1 package Sba2;
2 //3. Write a customized Exception class for a Banking project
3
4 class InvalidAccountNumberException extends Exception {
5     public InvalidAccountNumberException(String message) {
6         super(message);
7     }
8 }
9
10 class BankAccountManager {
11     public BankAccount find(String accountNumber) throws InvalidAccountNumberException {
12         if(accountNumber.equals("123456")) {
13             return new BankAccount();
14         }
15         else {
16             throw new InvalidAccountNumberException(" Bank AccountNumber is not found :- "
17                                                         + accountNumber);
18         }
19     }
20 }
21
22 class BankAccount {
23     public String accountNumber;
24 }
25 public class BankAccountTest {
26
27     public static void main(String[] args) {
28         BankAccountManager obj = new BankAccountManager();
29         try {
30             BankAccount bankAccount = obj.find("123455");
31         }
32         catch(InvalidAccountNumberException ex) {
33             System.out.println(ex);
34         }
35     }
36 }
37 }
38
```

Problems | Javadoc | Declaration | Console | Coverage | Call Hierarchy | Servers

<terminated> BankAccountTest [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 28, 2022, 4:46:52 PM)

Sba2.InvalidAccountNumberException: Bank AccountNumber is not found :- 123455

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