SBA-2

SWETHA ANDE

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

```java
public class Program1 {

        public static void main(String[] args) {

                String s = "This is a string statement";

                StringBuilder s1 = new StringBuilder();

                s1.append(s);

                s1.reverse();

System.out.println(s1);

        }

}
```

OUTPUT:

```
1  //1. Write a program to reverse the String(use char[] or String built in method)
2  package SBA2;
3
4  public class Program1 {
5⊝     public static void main(String[] args) {
6          String s = "This is a string statement";
7          StringBuilder s1 = new StringBuilder();
8          s1.append(s);
9          s1.reverse();
10         System.out.println(s1);
11     }
12
13 }
14 |
```

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

```java
public class Program2 {

    public static void main(String[] args) {

        String s ="This is an String statement";

        String s1 = "Swetha";

        String s2 = new String("Swetha");

    System.out.println(s.length());

     System.out.println(s.contains(s2));

    System.out.println(s.replace('S', 's'));

    System.out.println(s.concat(s1));

    System.out.println(s1.equals(s2));

     System.out.println(s1==s2);
```
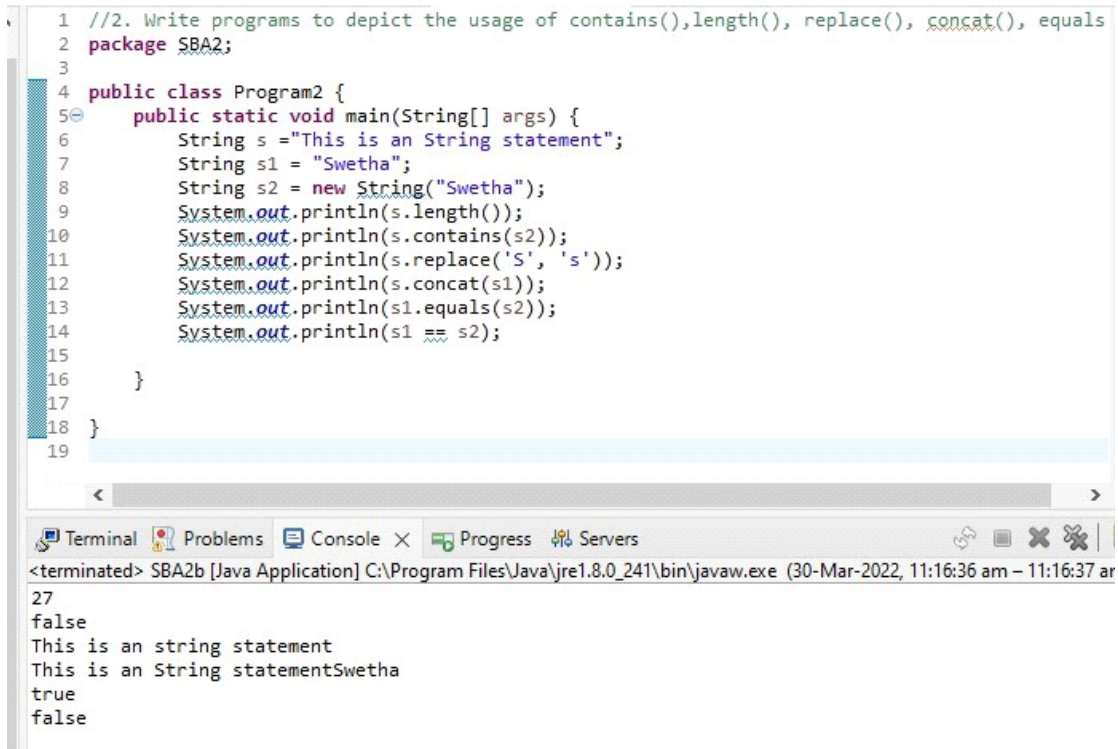
```
        }

}
```

OUTPUT:

```
 1  //2. Write programs to depict the usage of contains(),length(), replace(), concat(), equals
 2  package SBA2;
 3
 4  public class Program2 {
 5⊖     public static void main(String[] args) {
 6          String s ="This is an String statement";
 7          String s1 = "Swetha";
 8          String s2 = new String("Swetha");
 9          System.out.println(s.length());
10          System.out.println(s.contains(s2));
11          System.out.println(s.replace('S', 's'));
12          System.out.println(s.concat(s1));
13          System.out.println(s1.equals(s2));
14          System.out.println(s1 == s2);
15
16      }
17
18  }
19
```

Terminal   Problems   Console ×   Progress   Servers

<terminated> SBA2b [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (30-Mar-2022, 11:16:36 am – 11:16:37 am

```
27
false
This is an string statement
This is an String statementSwetha
true
false
```

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

```
public class Program3 {

        public static void main(String[] args) {

                Account act = new Account();

                System.out.println("Current Balance: "+act.balance());

                System.out.println("Withdrawing $200");

                act.withdraw(200);

                System.out.println("Current balance: "+act.balance());

                act.withdraw(1000);


        }
```

```java
}
class Account{

    private int balance=1000;


    public int balance() {

        return balance;

    }
    public void withdraw(int amount) throws NotSufficientFundException{

        if(amount >= balance) {

            throw new
NotSufficientFundException(String.format("Current balance %d is less than
requested amount %d ", balance, amount));


        }

        balance = balance - amount;

    }
    public void deposit(int amount) {

        if(amount <= 0) {

            throw new IllegalArgumentException(String.format("Invalid
deposit amount %s", amount ));

        }

    }

}
class NotSufficientFundException extends RuntimeException{

    private String message;

    public NotSufficientFundException(String message) {

        this.message=message;

    }

    public NotSufficientFundException(Throwable cause, String message) {
```
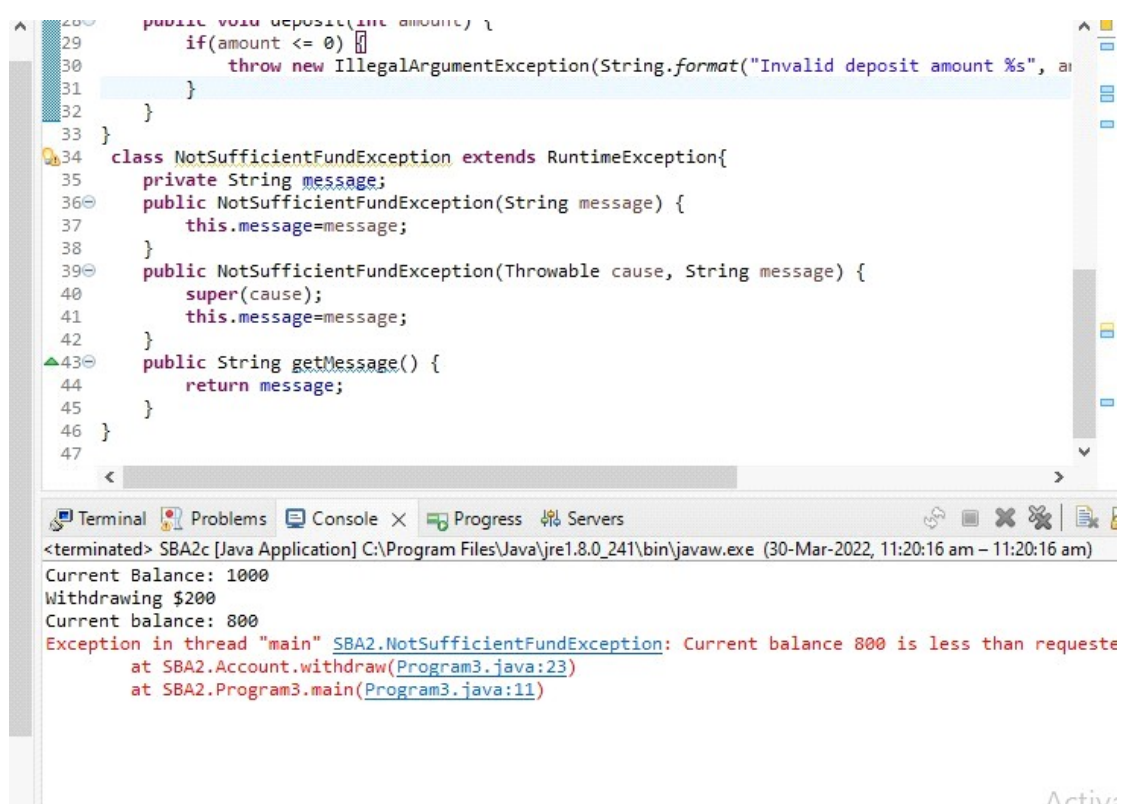
```java
        super(cause);

        this.message=message;

    }

    public String getMessage() {

        return message;

    }

}
```

OUTPUT: