




SBA2-MARIA TOMY-210913



Maria Tomy
[210913]

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

```
Labeledbreak.java x StringRev.java x
1  import java.util.*;
2  class StringRev
3  {
4      public static void main(String[] args)
5      {
6          String a, b = "";
7          Scanner sc = new Scanner(System.in);
8          System.out.print("Enter the string to be reversed:");
9          a = sc.next();
10         int n = a.length();
11         for(int i=n-1;i>0;i--)
12         {
13             b = b+a.charAt(i);
14         }
15         System.out.println("Reversed String is: ");
16         System.out.println(b);
17     }
18 }
```

OUTPUT

```
C:\Users\ustjavafsd205\Documents\sba1>Javac StringRev.java

C:\Users\ustjavafsd205\Documents\sba1>Java StringRev
Enter the string to be reversed:Ravi
Reversed String is:
iva
```

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

```
Stringuse.java
1  import java.io.*;
2  class Stringuse
3  {
4      public static void main(String[] args)
5      {
6          String s1= "Hello";
7          String s2= "World";
8          System.out.println(s1.contains("el"));
9          System.out.println(s1.length());
10         System.out.println(s1.concat(s2));
11         System.out.println(s1.replace('H','C'));
12         System.out.println(s1.contains(s2));
13     }
14 }
```

OUTPUT

```
C:\Users\ustjavafsd205\Documents\sba2>Javac Stringuse.java

C:\Users\ustjavafsd205\Documents\sba2>java Stringuse
true
5
HelloWorld
Cello
false
```

3. Write a customized Exception class for a Banking project

```
UserDefinedException.java x
1  import java.util.Scanner;
2  class MinimumAccountBalance extends Exception {
3      String message;
4      public MinimumAccountBalance(String message) {
5          this.message = message;
6      }
7      @Override
8      public String toString() {
9          return message;
10     }
11 }
12 public class UserDefinedException {
13     static double current_balance = 100;
14     public static void main(String[] args) throws MinimumAccountBalance {
15         Scanner s = new Scanner(System.in);
16         System.out.println("Enter amount to withdrawal");
17         int n = s.nextInt();
18         try {
19             if (current_balance < n) {
20                 throw new MinimumAccountBalance("Insufficient funds ! your Current balance is " + current_balance);
21             } else {
22                 System.out.println("Please Take The Money : " + n);
23             }
24         } catch (MinimumAccountBalance mab) {
25             mab.printStackTrace();
26         }
27     }
28 }
29 }
```

OUTPUT

```
C:\Users\ustjavafsd205\Documents\sba2>Javac UserDefinedException.java

C:\Users\ustjavafsd205\Documents\sba2>java UserDefinedException
Enter amount to withdrawal
30
Please Take The Money : 30

C:\Users\ustjavafsd205\Documents\sba2>java UserDefinedException
Enter amount to withdrawal
150
Insufficient funds ! your Current balance is 100.0
    at UserDefinedException.main(UserDefinedException.java:27)
```