SBA-2 Abdul Javid - 210932

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

```java
public class StringReverse {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        StringBuilder str = new StringBuilder("Hello world");
        System.out.println("String :  "+str.toString());
        StringBuilder rev = str.reverse();
        System.out.println("Reverse string: "+rev);
    }

}
```

Output:

```
String :  Hello world
Reverse string: dlrow olleH
```

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

```java
import java.util.Scanner;

public class StringMethods {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the string: ");
        String st1 = sc.nextLine();
        System.out.println("Enter another string");
        String st2 = sc.nextLine();

        System.out.println("Checking string 2 contains in string 1:   "+st1.contains(st2));
        System.out.println("The length of String1:   "+st1.length());
        System.out.println("Checking two strings are equal:   "+st1.equals(st2));
        System.out.println("Concatenating two string:   "+st1.concat(st2));
        System.out.println("Using replace method:   "+st1.replace('l', 'k'));
        sc.close();
    }

}
```

Output:

```
Enter the string:
Hello
Enter another string
ell
Checking string 2 contains in string 1:   true
The length of String1:   5
Checking two strings are equal:   false
Concatenating two string:   Helloell
Using replace method:   Hekko
```

3. Write a customized Exception class for a Banking project

```
class MinBalanceException extends Exception
{
    public MinBalanceException()
    {
        System.out.println ("Balance is low");
    }
}

public class CustomSample {

    public static void main(String[] args) {
        try
        {
            int acno[] = {1010,2475,1973,3457};
            double bal[] = {1500,1800,500,900};
            System.out.println ("AccountNo  " + "  Balance ");
            for(int i=0;i<4;i++)
            {
                System.out.println (acno[i] + "\t\t" + bal[i] + "\t");
                if(bal[i]<1000)
                {
                    throw new MinBalanceException();
                }
            }

        }
        catch(MinBalanceException e)
        {
            System.out.println("Exception Caught");
        }
    }
}
```

Output: