

SBA-2 Abdul Javid - 210932

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

```
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()

```
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
```

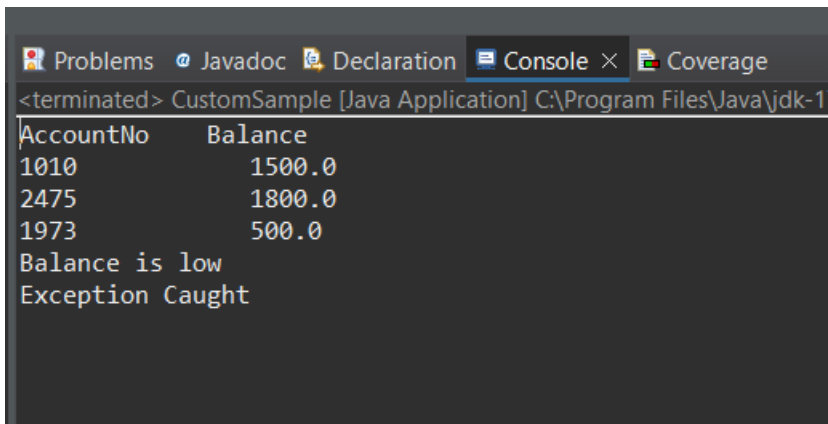
3. Write a customized Exception class for a Banking project

```
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:



The screenshot shows an IDE window with tabs for Problems, Javadoc, Declaration, Console, and Coverage. The Console tab is active, showing the output of the program. The output is as follows:

```
<terminated> CustomSample [Java Application] C:\Program Files\Java\jdk-1
AccountNo    Balance
1010         1500.0
2475         1800.0
1973         500.0
Balance is low
Exception Caught
```