Assignment-1

1. Write a java program to reverse a string without using the inbuilt method.

```
package StringAssignment;

public class ReverseString {

	public static void main(String [] args) {

		String str="Hello World ";
		String result=" ";

		for(int i=str.length()-1; i>=0;i--)
				result=result+str.charAt(i);

		System.out.println(result);
	}
}
```

2. Write a java program to know whether the given string is palindrome.

```
package StringAssignment;
import java.util.*;
public class PalindromeString {

	public static void main(String [] args) {

		Scanner sc = new Scanner(System.in);

		System.out.print("Enter your string: ");
		String str=sc.nextLine();

		String Org_str=str;
		String rev="";

		for(int i=str.length()-1 ; i>=0; i--) {
			rev=rev+str.charAt(i);
		}

		if(Org_str.equals(rev))
		{
			System.out.println(Org_str+" --Is Palindrome String");
```

```
                }
                else {
                        System.out.println(Org_str+"--Is not Palindrome String");
                }
                sc.close();
        }
}
```

3. Write a java program to convert upper case to lower case and vice versa.

```
package StringAssignment;
import java.util.Scanner;

public class UpperLowerCaseSingleCHARString {
        public static void main(String [] args) {

                Scanner r = new Scanner(System.in);

                char ch, ch2;
                //ch2=" ";
                System.out.print("Enter Your String: ");
                 ch=r.next().charAt(0);

                 if(ch>='A' && ch<='Z')
                 {
                        ch2=Character .toLowerCase(ch);
                        System.out.print("LowerCase: "+ch2);
                 }
                 else {
                        ch2=Character .toUpperCase(ch);
                        System.out.print("UpperCase: "+ch2);
                 }
                r.close();
        }

}
```

4. Write a java program to remove a particular character from a string.

```
package StringAssignment;
//import java.util.*;
public class RemoveCharFromString {
```

```
        public static void main(String [] args) {

                String s1="World";
                 char c='o';
                 String s2="";

                 for(int i=0; i<s1.length(); i++)
                 {
                         if(c !=s1.charAt(i)) {
                                 s2=s2+s1.charAt(i);
                         }
                 }
                 System.out.println(s2);
        }
}
```

5. Write a java program to find the index of a Substring.

```
package StringAssignment;
import java.util.Scanner;

public class SubstringINDEX {

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter a string: ");
        String input = scanner.nextLine();

        System.out.println("Substrings and their indices:");

        for (int i = 0; i < input.length(); i++) {
            for (int j = i + 1; j <= input.length(); j++) {
                String substring = input.substring(i, j);
                System.out.println(substring + " - [" + i + ", " + (j - 1) + "]");
            }
        }

        scanner.close();
    }
}
```