Write a Java program to get the character at the given index within the String

```
package stringassignment;

import java.util.Scanner;

public class StringAssignment {
        public static char
           getCharFromString(String str, int index)
           {
               return str.charAt(index);
           }

                 public static void main(String[] args)
                 {
                    String str;
                    int index;
                     Scanner sc=new Scanner(System.in);
                     System.out.println("Enter the String");
                     str=sc.next();
                     System.out.println("Enter the index ");
                     index=sc.nextInt();
                     char ch = getCharFromString(str, index);

                     System.out.println("Character from " + str+ " at index " +
index+ " is " + ch);
                 }
       }
```

```
Enter the String
Shivaraj
Enter the index
3
Character from Govardhani at index 6 is v
```

Write a Java program to get the character (Unicode code point) at the given index within the String

```
package stringassignment;

import java.util.Scanner;

public class StringUnicodePointAssignment {

       public static void main(String[] args) {
              String str;
              Scanner sc=new Scanner(System.in);
              System.out.println("Enter the String:");
              str=sc.next();

               int result_1 = str.codePointAt(0);
               int result_2 = str.codePointAt(1);
               int result_3 = str.codePointAt(2);
               int result_4 = str.codePointAt(3);
               int result_5 = str.codePointAt(4);

               System.out.println("Original String : " + str);
```

```
                System.out.println("unicode point at 0 = "
                                   + result_1);
                System.out.println("unicode point at 1 = "
                                   + result_2);
                System.out.println("unicode point at 2 = "
                                   + result_3);
                System.out.println("unicode point at 3 = "
                                   + result_4);
                System.out.println("unicode point at 4 = "
                                   + result_5);
        }

}
```

```
Enter the String:
Shivaraj
Original String : Shivaraj
unicode point at 0 = 71
unicode point at 1 = 111
unicode point at 2 = 118
unicode point at 3 = 97
unicode point at 4 = 114
```

Write a Java program to compare two strings lexicographically.
Two strings are lexicographically equal if they are the same length and contain the same characters in the same position

```
package stringassignment;

import java.util.Scanner;

public class ComparingStringLexicographically {

        public static int stringCompare(String str1, String str2) {
                for (int i = 0; i < str1.length() && i < str2.length(); i++) {
                        if ((int) str1.charAt(i) == (int) str2.charAt(i)) {
                                continue;
                        } else {
                                return (int) str1.charAt(i) - (int) str2.charAt(i);
                        }
                }


                if (str1.length() < str2.length()) {
                        return (str1.length() - str2.length());
                } else if (str1.length() > str2.length()) {
                        return (str1.length() - str2.length());
                }


                else {
                        return 0;
```

```
		}
	}


	public static void main(String args[]) {
		String string1;
		String string2;
		String string3;
		String string4;
	  Scanner sc=new Scanner(System.in);
	  System.out.println("Enter String 1");
	  string1=sc.next();
	  System.out.println("Enter String 2");
	  string2=sc.next();
	  System.out.println("Enter String 3");
	  string3=sc.next();
	  System.out.println("Enter String 4");
	  string4=sc.next();

		System.out.println(stringCompare(string1, string2));
		System.out.println(stringCompare(string1, string3));
		System.out.println(stringCompare(string2, string1));

		System.out.println(stringCompare(string1, string4));
		System.out.println(stringCompare(string4, string1));
	}
}
```

Write a Java program to counts occurrences of a certain character in a given string

```
package stringassignment;

import java.util.Scanner;

public class CountOccuranceOfCharinString {
	 static final int MAX_CHAR = 256;

	   static void getOccurringChar(String str)
	   {
	       int count[] = new int[MAX_CHAR];

	       int len = str.length();

	       for (int i = 0; i < len; i++)
	           count[str.charAt(i)]++;

	       char ch[] = new char[str.length()];
	       for (int i = 0; i < len; i++) {
	           ch[i] = str.charAt(i);
	           int find = 0;
	           for (int j = 0; j <= i; j++) {
	               if (str.charAt(i) == ch[j])
	                   find++;
```

```
                    }

                    if (find == 1)
                        System.out.println("Number of Occurrence of " + str.charAt(i)+
" is:" + count[str.charAt(i)]);
                }
            }

            public static void main(String[] args)
            {
               Scanner sc=new Scanner(System.in);
               System.out.println(" Eneter the String:");
                String str;
                str=sc.next();
                getOccurringChar(str);
            }



}
```

```
Eneter the String:
Shivu
Number of Occurrence of S is:1
Number of Occurrence of h is:1
Number of Occurrence of i is:1
Number of Occurrence of v is:1
Number of Occurrence of u is:1
```

Write a Java program to concatenate a given string with itself of a given number of times.

```
package stringassignment;

import java.util.Scanner;

public class ConcatenateString {
       public static void main(String args[])
    {
                String str1;
         String str2;
         String str4;
                Scanner sc=new Scanner(System.in);
                System.out.println("Enter String1");
                str1=sc.next();
                System.out.println("Enter String2");
                str2=sc.next();
         String str3 = str1.concat(" "+str2);
         System.out.println("String3-->"+str3);
         System.out.println("Enter String4");
         str4=sc.next();
         String str5 = str3.concat(" "+str4);
         System.out.println("String5--->"+str5);
    }
```

```
}
```

```
Enter String1
Welcometo
Enter String2
Wednessday
String3-->Welcometo Wednessday
Enter String4
Series
String5--->Welcometo Wednessday Series
```

```
check the given string is panlidrome or not
package stringassignment;

import java.util.Scanner;

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

		String myString;
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the String:");
		myString = sc.next();
		StringBuffer buffer = new StringBuffer(myString);
		buffer.reverse();
		String data = buffer.toString();
		if (myString.equals(data)) {
			System.out.println("Given String is palindrome");
		} else {
			System.out.println("Given String is not palindrome");
		}
	}
}
Enter the String:
MADAM
Given String is palindrome
```

```
Enter the String:
Shivaraj
Given String is not palindrome
```

```
7)//Java Program to prove that strings are immutable in java
package stringassignment;

import java.util.Scanner;

public class ImmutableString {
	public static void referenceCheck(Object x, Object y) {
	  if (x == y) {
	      System.out.println("Both pointing to the same reference");
```

```
        } else {
            System.out.println("Both are pointing to different reference");
        }
    }
    public static void main(String[] args) {
        String str1 ;
        String str2 ;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter String1:");
        str1=sc.next();
        System.out.println("Enter String2:");
        str2=sc.next();
        System.out.println("Before Modification in str1");
        referenceCheck(str1, str2);
        str1 += "ava";
        System.out.println("After Modification");
        referenceCheck(str1, str2);
    }
}
```

```
Enter String1:
Shivu
Enter String2:
Shivu
Before Modification in str1
Both are pointing to different reference
After Modification
Both are pointing to different reference
```