1. ALL METHODS

```
package str;

public class AllString {

	public static void main(String[] args) {
		String s1="Ilakkiya";
		String s5="Ilakkiya";
		String s2=" Vicky ";
		int n =10;
		String s3="Java is a high level Programing language.";
		String s4="Final variable cannot be changed.Final method cannot override.";
		System.out.println("STRING ALL METHODS:\n");
		System.out.println("Uppercase:"+s1.toUpperCase());
		System.out.println("LowerCase:"+s1.toLowerCase());
		System.out.println("TrimCase:"+s2.trim());
		//Trim method eliminates white spaces before and after the String.
		System.out.println("StartWith:"+s1.startsWith("Il"));
		System.out.println("EndWith:"+s1.endsWith("y"));
		System.out.println("CharAT:"+s1.charAt(1));
		System.out.println("Length:"+s1.length());
		System.out.println("Intern:"+s1.intern());
		String s=String.valueOf(n);
		System.out.println(s+20);
		String r = s3.replace("Java","Python");
		System.out.println("Replace:"+r);
		System.out.println("CodePointAt:"+s1.codePointAt(0));
		System.out.println("IndexOf:"+s4.indexOf("cannot"));
		System.out.println("lastIndexOf:"+s4.lastIndexOf("Final"));
		System.out.println("Empty:"+s1.isEmpty());
		System.out.println("Blank:"+s1.isBlank());
		System.out.println("Hashcode:"+s1.hashCode());
		System.out.println(s1.equals(s5));
		System.out.println(s1.equalsIgnoreCase(s5));
```

```
            System.out.println("Contains:"+s1.contains("la"));
            System.out.println("Content
Equal:"+s2.contentEquals("Vicky"));



        }

}
```

Output:

```
STRING ALL METHODS:

Uppercase:ILAKKIYA
LowerCase:ilakkiya
TrimCase:Vicky
StartWith:true
EndWith:false
CharAT:l
Length:8
Intern:Ilakkiya
1020
Replace:Python is a high level Programing language.
CodePointAt:73
IndexOf:15
lastIndexOf:33
Empty:false
Blank:false
Hashcode:-1678577901
true
true
Contains:true
Content Equal:false
```

2. GET THE INDEX STRING VALUE

```
package str;

public class Index1 {

public static void main(String[] args) {
                String s = "Java Programming";
                System.out.println("The string is defined as " +s);
                int index = 13;
                char result = s.charAt(index);
System.out.println("The character at the given index "+index+":"+
result);
              }
            }
```

Output:

The string is defined as: Java Programming
The character at the given index 13:i

3. NON REPEATING CHARACTER

```
package str;
public class NonRepeat {

   public static void main(String[] args) {
String s = "Java is high level and java contains oops concept";
    int l = s.length();
      System.out.println("Input string: " + s);
  System.out.println("Non-repeating letters:");

      for (int i = 0; i < l; ++i) {
         boolean isRepeating = false;


         for (int j = 0; j < l; ++j) {
```

```
    if (i != j && s.charAt(i) == s.charAt(j)) {
                isRepeating = true;
                break;
            }
        }


        if (!isRepeating) {
        System.out.print(s.charAt(i) + " ");
        }
      }
   }
}
```

Output:

Input string: Java is high level and java contains oops concept
Non-repeating letters:
J g d j

4. REVERSE STRING

```
package str;

public class Reverse {

        public static void main(String[] args) {
                String s="vicky";
                int l = s.length();
                char ch,ch1;
                System.out.println("original String:"+s);
                System.out.println("Reverse String:");
                for(int i=l-1;i>=0;--i) {

                        ch=s.charAt(i);
                  System.out.print(ch);
                        }
                }

        }
```

Output:
original String:vicky
Reverse String:
ykciv

5. REVERSE STRING USING RECURSION

```
package str;
public class RverseRec{

public String reverse (String str) {

if(str.isEmpty())  {
  System.out.println("String is empty.") ;
   return str;
}
 else   {
return reverse (str.substring(1))+str.charAt(0);
}
}
public static void main(String[] args)   {
RverseRec rs = new RverseRec();
 String str="ilakkiya";
 System.out.println("Original:"+str);
 String result=rs.reverse(str);
 System.out.println(result);

}
}
```

Output:

Original:ilakkiya
ayikkali

6. FREQUENT CHARACHER

```
package str;

public class Frequent {
	public static void main(String[] args) {
	   String input= "abracadabra";
	   char most = find(input);
	   System.out.println("Most frequent character: " + most);
	}

	public static char find(String str) {
	   // Assuming ASCII characters (0-127)
	   int[] charF= new int[128];

	   // Count the frequency of each character in the string
	   for (char c : str.toCharArray()) {
	      charF[c]++;
	   }

	   // Find the most frequent character
	   char mostFrequentChar = '\0';
	   int maxFrequency = 0;

	   for (int i = 0; i < charF.length; i++) {
	      if (charF[i] > maxFrequency) {
	         maxFrequency = charF[i];
```

```
                mostFrequentChar = (char) i;
            }
        }

        return mostFrequentChar;
    }
}
```

OUTPUT:

Most frequent character: a