

Lab-1

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```
1  class StrMethod{
2      public static void main(String[] args){
3          String text ="We realizes that while our workers were
              thriving , the surrounding villages were still
              suffering. It became our goal to uplift their quality of
              life as well. I remember seeing a family of 4 on a
              motorbike in the heavy Bombay rain I knew I wanted to do
              more for these families who were risking their lives for
              lack of an alternative";
4
5          char result = text.charAt(0);
6          System.out.println("CharAt:");
7          System.out.println(result);
8
9          System.out.println("compareTo:");
10         String text1="We realizes that while our workers were
              thriving , the surrounding villages were still
              suffering. It became our goal to uplift their quality of
              life as well. I remember seeing a family of 4 on a
              motorbike in the heavy Bombay rain I knew I wanted to do
              more for these families who were risking their lives for
              lack of an alternative";
11         System.out.println(text.compareTo(text1));
12
13         System.out.println("concat:");
14         System.out.println(text.concat(text1));
15
16         System.out.println("contains:");
17         System.out.println(text.contains("realizes"));
18         System.out.println(text.contains("e"));
19         System.out.println(text.contains("Hi"));
20
21         System.out.println("endsWith:");
22         System.out.println(text.endsWith("ive"));
23         System.out.println(text.endsWith("alternative"));
24         System.out.println(text.endsWith("how"));
25
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26      System.out.println("equals:");
27      System.out.println(text.equals(text1));
28
29      System.out.println("equalsIgnoreCase:");
30      System.out.println(text.equalsIgnoreCase(text1));
31
32      // format()
33      String formattedText = String.format("Formatted text: %s",
34          text);
35      System.out.println(formattedText);
36
37      // getBytes()
38      byte[] textBytes = text.getBytes();
39      System.out.println("Text in bytes: " + new String(textBytes));
40
41      // getChars()
42      char[] charArray = new char[10];
43      text.getChars(5, 15, charArray, 0);
44      System.out.println("Extracted characters: " + new
45          String(charArray));
46
47      // indexOf()
48      int indexOfThriving = text.indexOf("thriving");
49      System.out.println("Index of 'thriving': " + indexOfThriving);
50
51      System.out.println("intern:");
52      String str = new String("We realizes that while our workers
53          were thriving").intern();
54      String str1 = new String("We realizes that while our workers
55          were thriving").intern();
56      System.out.println(str1 == str);
57
58      System.out.println("isEmpty:");
59      String str2 = new String("We realizes that while our workers
60          were thriving , the surrounding villages were still
61          suffering. It became our goal to uplift their quality of
62          life as well. I remember seeing a family of 4 on a
63          motorbike in the heavy Bombay rain I knew I wanted to do
64          more for these families who were risking their lives for
65          lack of an alternative");
66      String str3 = new String("");
67      System.out.println(str2.isEmpty());
68      System.out.println(str3.isEmpty());
69
70      String[] words = text.split(" ");
71      String joinedText = String.join("-", words);
72      System.out.println("Joined text: " + joinedText);

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66 // lastIndexOf()
67 int lastIndexOfVillages = text.lastIndexOf("villages");
68 System.out.println("Last index of 'villages': " +
    lastIndexOfVillages);
69
70 // length()
71 int textLength = text.length();
72 System.out.println("Text length: " + textLength);
73
74 // replace()
75 String replacedText = text.replace("thriving", "prospering");
76 System.out.println("Replaced text: " + replacedText);
77
78 // replaceAll()
79 String regexReplacedText = text.replaceAll("[0-9]", "X");
80 System.out.println("Regex replaced text: " +
    regexReplacedText);
81
82 // split()
83 String[] sentences = text.split("\\.");
84 System.out.println("Sentences: ");
85 for (String sentence : sentences) {
86     System.out.println(sentence.trim());
87 }
88
89 // startsWith()
90 boolean startsWithWe = text.startsWith("We");
91 System.out.println("Starts with 'We': " + startsWithWe);
92
93 // substring()
94 String substring = text.substring(0, 20);
95 System.out.println("Substring: " + substring);
96
97 // toCharArray()
98 char[] charArray10 = new char[10]; // Rename the variable
99 text.getChars(5, 15, charArray10, 0);
100 System.out.println("Extracted characters: " + new
    String(charArray10));
101
102 // toLowerCase()
103 String lowerCaseText = text.toLowerCase();
104 System.out.println("Lowercase text: " + lowerCaseText);
105
106 // toUpperCase()
107 String upperCaseText = text.toUpperCase();
108 System.out.println("Uppercase text: " + upperCaseText);
109
110 // trim()
111 String trimmedText = text.trim();
112 System.out.println("Trimmed text: " + trimmedText);

```

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113
114         // valueOf()
115         int number = 42;
116         String stringValue = String.valueOf(number);
117         System.out.println("String value of number: " + stringValue);
118
119     }
120
121 }

```

Output

```

punith@punith:~/usr-local/02-sem/java/lab/02lab
~/u/0/java/lab/02lab java StrMethod
CharAt:
W
compareTo:
0
concat:
We realizes that while our workers were thriving , the surrounding villages were still suffering. It became our goal to uplift their quality of life as well. I remember seeing a family of 4 on a motorbike in the heavy Bombay rain - I knew I wanted to do more for these families who were risking their lives for lack of an alternativeWe realizes that while our workers were thriving , the surrounding villages were still suffering. It became our goal to uplift their quality of life as well. I remember seeing a family of 4 on a motorbike in the heavy Bombay rain - I knew I wanted to do more for these families who were risking their lives for lack of an alternative
contains:
true
true
false
endsWith:
true
true
false
equals:
true
equalsIgnoreCase:
true
Formatted text: We realizes that while our workers were thriving , the surrounding villages were still suffering. It became our goal to uplift their quality of life as well. I remember seeing a family of 4 on a motorbike in the heavy Bombay rain - I knew I wanted to do more for these families who were risking their lives for lack of an alternative
Text in bytes: We realizes that while our workers were thriving , the surrounding villages were still suffering. It became our goal to uplift their quality of life as well. I remember seeing a family of 4 on a motorbike in the heavy Bombay rain - I knew I wanted to do more for these families who were risking their lives for lack of an alternative
Extracted characters: alizes tha
Index of 'thriving': 40
intern:
true
isEmpty:
true

```

```
punith@punith:~/usr-local/02-sem/java/lab/02lab

isEmpty:
false
true
Joined text: We-realizes-that-while-our-workers-were-thriving-,the-surrounding-villages-were-still-suffering.-It-became-our-goal-to-uplift-their-quality-of-life-as-well.-I-remember-seeing-a-family-of-4-on-a-motorbike-in-the-heavy-Bombay-rain---I-knew-I-wanted-to-do-more-for-these-families-who-were-risking-their-lives-for-lack-of-an-alternative
Last index of 'villages': 67
Text length: 333
Replaced text: We realizes that while our workers were prospering , the surrounding villages were still suffering. It became our goal to uplift their quality of life as well. I remember seeing a family of 4 on a motorbike in the heavy Bombay rain - I knew I wanted to do more for these families who were risking their lives for lack of an alternative
Regex replaced text: We realizes that while our workers were thriving , the surrounding villages were still suffering. It became our goal to uplift their quality of life as well. I remember seeing a family of X on a motorbike in the heavy Bombay rain - I knew I wanted to do more for these families who were risking their lives for lack of an alternative
Sentences:
We realizes that while our workers were thriving , the surrounding villages were still suffering
It became our goal to uplift their quality of life as well
I remember seeing a family of 4 on a motorbike in the heavy Bombay rain - I knew I wanted to do more for these families who were risking their lives for lack of an alternative
Starts with 'We': true
Substring: We realizes that whi
Extracted characters: alizes tha
Lowercase text: we realizes that while our workers were thriving , the surrounding villages were still suffering. it became our goal to uplift their quality of life as well. i remember seeing a family of 4 on a motorbike in the heavy bombay rain - i knew i wanted to do more for these families who were risking their lives for lack of an alternative
Uppercase text: WE REALIZES THAT WHILE OUR WORKERS WERE THRIVING , THE SURROUNDING VILLAGES WERE STILL SUFFERING. IT BECAME OUR GOAL TO UPLIFT THEIR QUALITY OF LIFE AS WELL. I REMEMBER SEEING A FAMILY OF 4 ON A MOTORBIKE IN THE HEAVY BOMBAY RAIN - I KNEW I WANTED TO DO MORE FOR THESE FAMILIES WHO WERE RISKING THEIR LIVES FOR LACK OF AN ALTERNATIVE
Trimmed text: We realizes that while our workers were thriving , the surrounding villages were still suffering. It became our goal to uplift their quality of life as well. I remember seeing a family of 4 on a motorbike in the heavy Bombay rain - I knew I wanted to do more for these families who were risking their lives for lack of an alternative
String value of number: 42
~ /usr-local/02-sem/java/lab/02lab
~ /usr-local/02-sem/java/lab/02lab
```