

## Assignment: 2

1. Write string methods in java programming.

Input: String str1 = "Hello"

String str2 = "hello"

String sample = "The quack fox jumps over a lazy dog";

pseudocode:

i. Compare ignoring case:

str1.compareToIgnoreCase(str2);

ii. Ends with  
sample.endsWith("dog");

iii. Current date & time:

LocalDate timeNow = LocalDateTime.now();

iv. Alphabet index:

String alphabet = "abcdefghijklmnopqrstuvwxyz";

for(char ch = 'a'; ch <= 'z'; ch++){

ch + " : " + alphabet.indexOf(ch));

v. Replace fox with cat

("fox", "cat"));

vi. Substituting:

(Sample.substring(10, 19));

vii. Trim:

String space = "Java"; (space.trim());

viii. Lowercase Length

(sample.length());

ix. Lowercase

(sample.toLowerCase());

x. Check Same data

String s1 = new String("Java");

String s2 = new String("Java");

System.out.println(s1.equals(s2));

3

Output:

0

True

12-2-2026 7:33:32

a: 0

b: 1

z: 25

The quick brown cat jumps over the lazy dog  
Brown fox, java, 44, true

2. Hospital Management system:

Input: create a class

pseudocode:

class patient{

String name, sex, address, illness;  
int age, days admitted;  
double charges;

```
patient(Constructor -> this.name = name, same for others)
```

```
void display()
```

```
{ System.out.println(+name + " x " + address + age + illness +  
charges + days admitted) } }
```

```
class main {
```

```
ArrayList<patient> list = new ArrayList<>();
```

```
list.add(new patient("Aisha", "Female", "Chennai", 20, 5000,  
10, "Fever"));
```

```
for(patient p: list) { p.display(); }
```

```
Iterator<patient> it = list.iterator();
```

```
while(it.hasNext()) { patient p = it.next(); if(p.days  
admitted > 15) it.remove }
```

Output:

All patients

Name: AISHA

Sex: Female

Address: Chennai

Illness: Fever

Age: 20

Charges: 5000

Days Admitted: 10.



Clear

Main.java



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Run

Output

```
1- import java.util.*;
2- class Patient {
3-     String name;
4-     int age;
5-     String sex;
6-     String address;
7-     String illness;
8-     double charges;
9-     int daysAdmitted;
10-     Patient(String name, int age, String sex, String address, String illness,
11-             double charges, int daysAdmitted) {
12-         this.name = name;
13-         this.age = age;
14-         this.sex = sex;
15-         this.address = address;
16-         this.illness = illness;
17-         this.charges = charges;
18-         this.daysAdmitted = daysAdmitted;
19-     }
20-     void display() {
21-         System.out.println("Name: " + name);
22-         System.out.println("Age: " + age);
23-         System.out.println("Sex: " + sex);
24-         System.out.println("Address: " + address);
25-         System.out.println("Illness: " + illness);
26-         System.out.println("Charges: " + charges);
27-         System.out.println("Days Admitted: " + daysAdmitted);
28-         System.out.println("-----");
29-     }
30- }
31- public class Main {
32-     static ArrayList<Patient> list = new ArrayList<>();
33-     static Scanner sc = new Scanner(System.in);
34- }
```

```
All Patients:
Name: Aisha
Age: 20
Sex: Female
Address: Chennai
Illness: Fever
Charges: 5000.0
Days Admitted: 10
-----
```

```
Active Patients:
Name: Aisha
Age: 20
Sex: Female
Address: Chennai
Illness: Fever
Charges: 5000.0
Days Admitted: 10
-----
```

```
=== Code Execution Successful ===
```

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Main.java



Run

Output

Clear

```
1- import java.util.*;
2- import java.time.*;
3- import java.time.format.DateTimeFormatter;
4- public class Main {
5-     public static void main(String[] args) {
6-         String str1 = "Hello";
7-         String str2 = "hello";
8-         String sample = "The quick brown fox jumps over the lazy dog.";
9-         System.out.println(str1.compareToIgnoreCase(str2));
10-        System.out.println(sample.endsWith("dog."));
11-        LocalDateTime now = LocalDateTime.now();
12-        DateTimeFormatter format = DateTimeFormatter.ofPattern("dd-MM-yyyy HH:mm:ss");
13-        System.out.println(now.format(format));
14-        String alphabet = "abcdefghijklmnopqrstuvwxyz";
15-        for(char ch = 'a'; ch <= 'z'; ch++) {
16-            System.out.println(ch + " : " + alphabet.indexOf(ch));
17-        }
18-        System.out.println(sample.replaceAll("fox", "cat"));
19-        System.out.println(sample.substring(10, 19));
20-        String space = "   Hello World   ";
21-        System.out.println(space.trim());
22-        System.out.println(sample.toLowerCase());
23-        System.out.println(sample.length());
24-        String s1 = new String("Java");
25-        String s2 = new String("Java");
26-        System.out.println(s1.equals(s2));
27-    }
28- }
```

```
0
true
13-02-2026 15:11:14
a : 0
b : 1
c : 2
d : 3
e : 4
f : 5
g : 6
h : 7
i : 8
j : 9
k : 10
l : 11
m : 12
n : 13
o : 14
p : 15
q : 16
r : 17
s : 18
t : 19
u : 20
v : 21
w : 22
x : 23
y : 24
z : 25

The quick brown cat jumps over the lazy dog.
brown fox
Hello World
the quick brown fox jumps over the lazy dog.
44
```