

Assignment 2

(set by 20/10/2023) after 10 days

1. Write string methods in java programming.

Input : String str1 = "Hello";

String str2 = "Hello";

String sample = "The quick Fox jumps over lazy dog";

pseudocode:

i. Compare ignoring case:

str1.compareToIgnoreCase(str2);

ii. Ends with

sample.endsWith("dog"));

iii. Current date & time:

LocalDateTime now = 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 {() prints out 23 (total) not (Sample.length());

(Sample.toLowerCase());

ix. Lowercase: if ((z > 0) && (z < 10)) {System.out.println("odd");}

(Sample.toLowerCase());

x. Check Same data:

String s1 = new String("Java").

String s2 = new String("Java").

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

Output:

True

12-2-2026 7:33:32

a: 0

b: 1

c: 25

The quick brown fox jumps over the lazy dog.

Brown Fox, Java, 44, Friday, 12/12/2026, 09:00 AM

2. Hospital Management system:

Input: Create a class:

pseudocode:

class patients

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 + sex + 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> iF = list.iterator();

while (iF.hasNext()) { patient p = iF.next(); if (p.days
Admitted > 15) iF.remove(); }

Output:

All patients

Name: AISHA

Sex: Female

Address: Chennai

Illness: Fever

Age: 20

Charges: 5000

Days Admitted: 10



Main.java



Clear

Output

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 ===

```
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 }
```

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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.
```