# **Laboratory Work**

Subject: Java Technologies Branch: B.Tech. (CE) Semester: IV Batch: <u>A1</u>

Student Roll No: CE001

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#### **Question 1**

```
import java.util.Scanner;

class Substr {

   public static void main (String [] args)
   {

       Scanner obj = new Scanner(System.in);
       System.out.print("Enter string : - ");
       String str = new String(obj.nextLine());
       System.out.println("The count is :- " + (str.split("hi").length + 1) );
   }
}
```

# Solution

```
"C:\Program Files\Eclipse Adoptium\jdk-17.0.8.101-hotspot\bin\java.exe'
.jar=60148:C:\Users\LENOVO\AppData\Local\Programs\IntelliJ IDEA Ultima
4\java\labs\out\production\labs" Substr
Enter string: nisarg
The count is: 0

Process finished with exit code 0
```

```
import java.util.Scanner;

class plaindrom{
   public static void main (String [] args)
   {
      Scanner obj = new Scanner(System.in);
      System.out.print("Enter String :- ");
      String s = obj.nextLine();
      StringBuilder s1 = new StringBuilder(s.toLowerCase());
```

```
StringBuilder s2 = new StringBuilder(s.toLowerCase());
s2.reverse();

if((s1.toString()).equals(s2.toString())) System.out.print("plindrom");
else System.out.print(" not palindrom");
}
```

```
"C:\Program Files\Eclipse Adoptium\jdk-17.0.8.101-hotspot\bin\java.e
.jar=60172:C:\Users\LENOVO\AppData\Local\Programs\IntelliJ IDEA Ult
4\java\labs\out\production\labs" plaindrom
Enter String :- nisarggrasin
plindrom
Process finished with exit code 0
```

```
import java.util.*;

class abbreviation{
   public static void main(String [] args)
   {
       Scanner obj = new Scanner(System.in);
       System.out.print("Enter string :- ");
       String S = obj.nextLine();

      int count = 1;
       String []Fullname = S.split(" ");
       StringBuffer n = new StringBuffer();
       for(String s : Fullname)
       {
            if(count%3 == 0)
            {
                  n.append(s);
            }
}
```

```
"C:\Program Files\Eclipse Adoptium\jdk-17.0.8.101-hotspot\bin\java.exe" "-java .jar=60192:C:\Users\LENOVO\AppData\Local\Programs\IntelliJ IDEA Ultimate\bin" 4\java\labs\out\production\labs" abbreviation
Enter string :- Nisarg Amlani Kalpeshbahi
New string is :- N.A.Kalpeshbahi
Process finished with exit code 0
```

```
import java.util.*;

class removespaces{

    static String remove_space(String s)
    {

        String []sarr = s.split(" ");

        StringBuffer sb = new StringBuffer();

        for( String str : sarr )
        {

            sb.append(str);
        }

        return sb.toString();

    }

    public static void main (String[] s)
    {
```

```
Scanner obj = new Scanner(System.in);
System.out.print("Enter string :- ");
String str = obj.nextLine();
System.out.print("New String is :- " + remove_space(str));
}
```

```
"C:\Program Files\Eclipse Adoptium\jdk-17.0
.jar=60745:C:\Users\LENOVO\AppData\Local\P
4\java\labs\out\production\labs" removespa
Enter string :- nisarg amlani
New String is :- nisargamlani
Process finished with exit code 0
```

```
import java.util.*;

class Student{
   int roll;
   String name;
   float Average;
   int[] marks;

   Student(String name , int roll , int[] marks)
   {
      this.name = name;
      this.roll = roll;
      this.marks = marks;

      average_marks(marks);
   }

   void average_marks(int[] marks)
   {
```

```
int n = marks.length;
      int sum = 0;
      for (int mark : marks) {
          sum += mark;
      this.Average = sum*1.0f/n;
class Main
  public static void main(String[] args)
      Scanner obj = new Scanner(System.in);
      System.out.println("Enter number :- ");
      int n = obj.nextInt();
      Student[] stud = new Student[n];
      int highest = 0;
      int index = 0;
          obj.nextLine();
          System.out.println("Enter student name :- ");
          String name = obj.nextLine();
          System.out.println("Enter id :- ");
          int roll = obj.nextInt();
          int[] marks = new int[5];
          for (int j = 0; j < n; j++)
              System.out.println("Enter marks of sub " + j + " :- ");
              marks[i] = obj.nextInt();
          stud[i] = new Student(name, roll, marks);
          if(stud[i].Average > highest )
              index = i;
      System.out.println(stud[index]);
```

```
"C:\Program Files\Eclipse Adoptium\jdk-17.0.8.101-hotspo
.jar=60564:C:\Users\LENOVO\AppData\Local\Programs\Intel
4\java\labs\out\production\labs" Main
Enter number :- 3
Enter student name :- nisarg
Enter id :- 5
Enter marks of sub 0 :- 80
Enter marks of sub 1 :- 70
Enter marks of sub 2 :- 42
Enter marks of sub 3 :- 63
Enter marks of sub 4 :- 45
Enter student name :- janmang
Enter id :- 6
Enter marks of sub 0 :- 45
Enter marks of sub 1 :- 89
Enter marks of sub 2 :- 74
Enter marks of sub 3 :- 56
Enter marks of sub 4 :- 41
Enter student name :- neha
Enter id :- 3
Enter marks of sub 0 :- 89
Enter marks of sub 1 :- 41
Enter marks of sub 2 :- 23
Enter marks of sub 3 :- 89
Enter marks of sub 4 :- 56
neha
59.6
Process finished with exit code 0
```