SIKSHA 'O' ANUSANDHAN
DEEMED TO BE UNIVERSITY

Admission Batch: Session: 2020-2021

Laboratory Record

Introduction to Computer Programming (CSE 1001)

Submitted by

Name: Rudra Prasad Rautray

Registration No.: 2041018081

Branch: CSIT

Semester: 1st Section: 2041010

Department of Computer Science & Engineering

Faculty of Engineering & Technology (ITER)

Jagamohan Nagar, Jagamara, Bhubaneswar, Odisha - 751030

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1) Write a java program to display the following messages.

Hello World !
Hello Again
I Like typing this.
This is Fun.
Yay ! Printing.
I'd much rather you 'not'.
I "said" do not touch this.

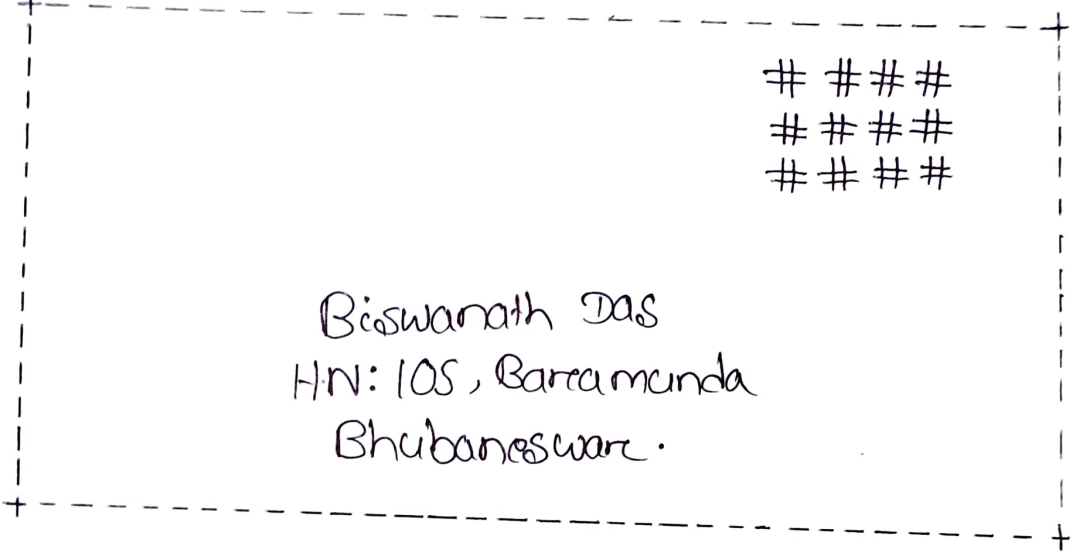
```
Package assignment 1;
/*Author's name :
*Author's registartion no. :
*Author's Semester :
*Author's Branch - Section :
*Subject : Introduction to Computers
          Programming (CSE 1001)
*Problem Description :
*/
Public class Ques 1 {
 Public static void main (String [ ] args) {
System . out . Println ("Hello World !");
System . out . Println ("Hello Again");
System . out . Println ("I Like typing this");
System . out . Println ("This is Fun");
System . out . Println ("Yay ! Printing");
```

```
System.out.println("I'd much rather you 'not'.");
System.out.println("I \"said\" do not touch this.");
```

Output

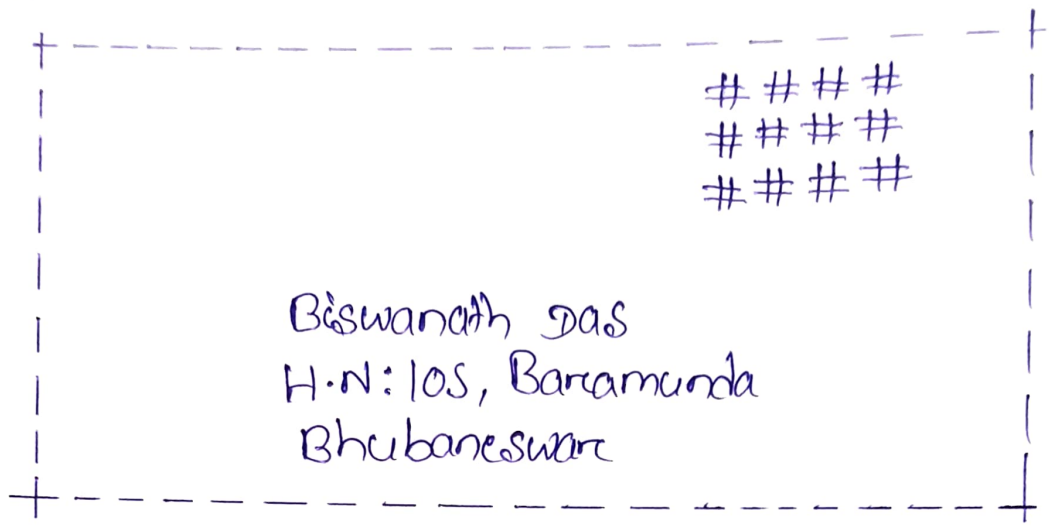
```
Hello World !
Hello Again
I Like typing this
This is Fun
Yay ! printing
I'd much rather you 'not'.
I "said" do not touch this.
```

2) write a java program that displays your name and address on the screen as if it were a letter. Your output should look something like that below.




```
/*
*Problem Description:
*/
Package assignment 1;
Public class Ques 2 {
   Public static void main (String [ ] args) {
System.out.Println("+----------+");
System.out.Println("|    #####  |");
System.out.Println("|    #####  |");
System.out.Println("|    #####  |");
System.out.println("|  Biswanath Das  |");
System.out.println("|  HN: 105, Baramunda|");
System.out.println("|  Bhubaneswar  |");
System.out.println("+----------+");
   }
}
```

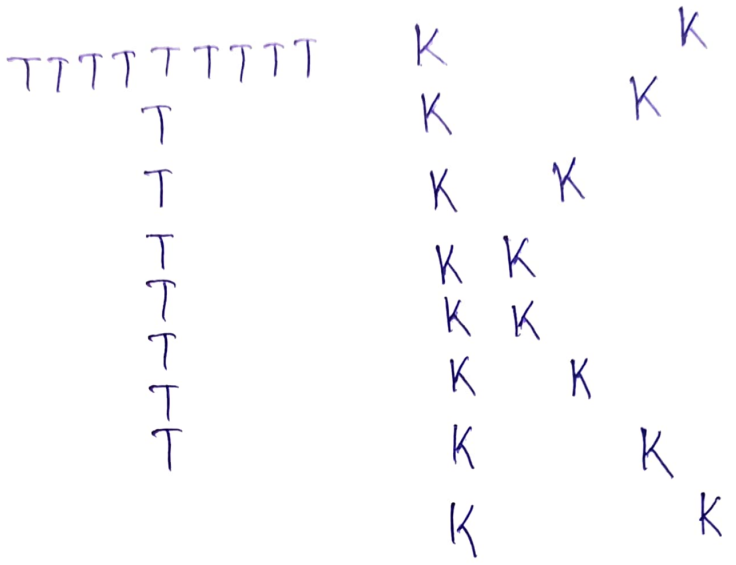
Output



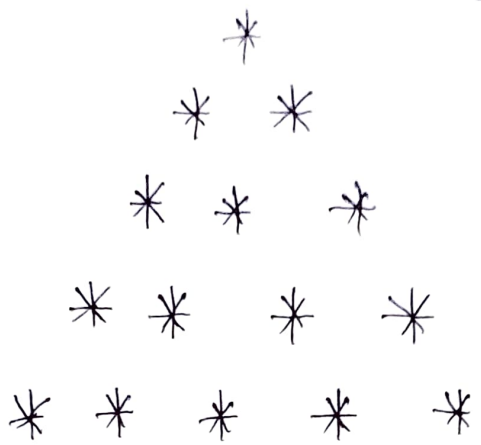
3. Write a java program that displays your name and initials on the screen, in block letters as shown. For example the name Tapan kumare.

```
Package assignment-1;
    Public class ques3
    {
    {
    Public static void main (String [o] args) {
 System.out.Println ("TTTTTTTTT  K      K");
System.out.println ("   T      K    K ");
System.out.println ("   T      K  K ");
System.out.println ("   T      K K ");
System.out.println ("   T      K K ");
System.out.println ("   T      K  K ");
System.out.println ("   T      K    K");
System.out.println ("   T      K      K");
    }
}
```

Output



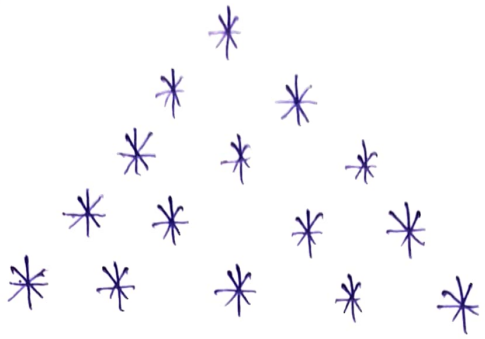
4. Write a java program to print an equilateral triangle using star '*'.



```
/*
*problem Description:
*/
Package assignment-1;
 Public class ques4 {
 Public static void main(String[] args){
System.out.Println("     *     ");
System.out.println(" *     *  ");
System.out.Println(" *     *     *");
System.out.println("*  *     *  *");
System.out.println("* *  *  *  *");
    }

}
```

Output



5. Write a java Program that stores your Regd. No and yeare of addmission into two varriables, and display their values on the screen.

My Regd. No is 2041018081 and I have taken admission in B. tech in 2020.

```
Package assignment -1;
Public class ques -5
  {
Public static void main (String [ ] args)
        {
  int rc = 2041018081 , y = 2020 ;
System. out. println ("My Regd. No is" +
                        rc + "and");
System.out.println("I have taken addmission
        in B. Tech in" + y);
  }
```

OUTPUT

My Regd. No is 2041018081 and I have taken admission in B. Tech in 2020.

6. Let we have two values 113, 2.71828. Then, declare two different varriables to hold the given values. Write the java program to display the values of these two varriables on the screen, one per line.

This is room # 113
e is close to 2.71828

```
Package assignment 1;
  Public class Ques 6
    {
    {
  public static void main (String [] args)
       {
    int a = 113;
    double b = 2.71828;
  System.out.println ("This room is #"+a);
  System.out.println ("e is close to"+b);
    }
  }
}
```

OUTPUT

This room is #113
e is close to 2.71828

7. Write a java program to exchange the values of two variable of integer type A and B using third temporary variable C.

```
Package assignment 1;
Public class ques 7
{
public static void main(String [] args) {
int A=10, B=20, C;
System.out.println("The values before swaping
                    are" + A+B);
    C=A ;
    A=B ;
    B=C ;
System.out.println("The values after swaping
                    are" + A+B);
    }
}
```

OUTPUT

The values before swaping are 10 20
The values after swaping are 20 10

8. Write a java programe to exchange the values of two varriable of integere type A and B without using thrid temporary varriable

```
Package assignment1;
Public class ques8
  {
Public static void main (String [] args){
int A=5, B=10;
System.out.println("Numbers before swaping="+A
                                    +" "+B);
    A=A+B;
    B=A-B;
    A=A-B;
System.out.println("Numbers after swaping="
                                +A+" "+B);
  }
}
```

Output

Numbers before swaping = 5 10

Numbers after swaping = 10 5

9. What do each of the following print?

a) System.out.println(2+"bc");
b) System.out.println(2+3+"bc");
c) System.out.println((2+3)+"bc");
d) System.out.println("bc"+(2+3));
e) System.out.println("bc"+2+3);

```
Package assignment1;
Public class ques9
{
Public static void main (String[] args){
System.out.println(2+"bc");
System.out.println(2+3+"bc");
System.out.println((2+3)+"bc");
System.out.println("bc"+(2+3));
System.out.println("bc"+2+3);
    }
}
```

OUTPUT:

2bc
5bc
5bc
bc5
bc23

10. What do each of the following print?

a. System.out.println('b');

b. System.out.println('b' + 'c');

c. System.out.println((char)('a' + 4));

```
Package assignment 1;
Public class ques 10
   {
Public static void main (String[] args)
   {
System.out.println('b');
System.out.println('b' + 'c');
System.out.println((char)('a' + 4));
   }
}
```

OUTPUT :

b
197
e

11. Suppose that a variable a is declared as int a = 2147483647 (or equivalently, Integer.MAX_VALUE). What do each of the following print?

a. System.out.println(a);
b. System.out.println(a+1);
c. System.out.println(2-a);
d. System.out.println(-2-a);

```
Package assignment 1;
Public class ques 11
  {
public static void main(String[] args) {
    int a = 2147483647;
System.out.println(a);
System.out.println(a+1);
System.out.println(2-a);
System.out.println(-2-a);
System.out.println(2*a);
System.out.println(4*a);
```

OUTPUT:

2147483647
2147483647
-2147483645
2147483647
-2
-4

12. Suppose that a varriable a is declared as double a = 3.14159. What do each of the following print?

a. System.out.println(a);
b. System.out.println(a+1);
c. System.out.println(8/(int)a);
d. System.out.println(8/a);
e. System.out.println((int)(8/a)).

```
Package assignment 1;
public class ques12
  {
public static void main(String[] Iargs){
 double a=3.14159;
System.out.println(a);
System.out.println(a+1);
System.out.println(8/(int)a);
System.out.println(8/a);
System.out.println((int)(8/a));
  }
}
```

OUTPUT:

3.14159
4.14159
2
2.546481240391012 4
2

13) Assume ruler "1", write a program to print following output using string concatenation (you can take extra variable).

```
1
121
12131 21
12131 21 4121 31 21
```

```
package assignment 1;
 public class ques13
 {
public static void main (String [ ] args) {
String ruler1= "1";
System.out.println (ruler1);
ruler1 = ruler1 +"2"+ ruler1;
System.out.println (ruler1);
ruler1 = ruler1 + "3" + ruler1;
System.out.println (ruler1);
ruler1 = ruler1 + "4" + ruler1;
System.out.println (ruler1);
    }
  }
```

OUTPUT:

```
1
121
12131 21
12131 21 4121 31 21
```