

**SIKSHA 'O' ANUSANDHAN**  
DEEMED TO BE UNIVERSITY

Admission Batch: 2021-2025

Session: 2021-22

**Laboratory Record**

**Introduction to Computer Programming  
(CSE 1001)**

Submitted by

Name: Kumar Panchsheel

Registration No.: 2141016393

Branch: Computer Science and Engineering [CSE]

Semester: 1st

Section: 2141026



**Department of Computer Science & Engineering**  
**Faculty of Engineering & Technology (ITER)**  
Jagamohan Nagar, Jagamara, Bhubaneswar, Odisha - 751030

## INDEX

\* Author's Name: Kumar Parthasarathy

\* Author's Regd. No: Q141016393

\* Author's Branch and Semester: CSE 1st.

\* Problem description: Assignment 4  
Question 1

Program:

```
public class Assignment {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        String msg;
        System.out.println("Enter the message");
        msg = sc.nextLine();
        int i = 1;
        while (i <= 10) {
            if (i == 1)
                System.out.println(i + "st" + msg);
            else if (i == 2)
                System.out.println(i + "nd" + msg);
            else if (i == 3)
                System.out.println(i + "rd" + msg);
            else
                System.out.println(i + "th" + msg);
            i++;
        }
    }
}
```

\* Author's Name: Kumar Panth Sarath

\* Author's Regd. No: 2141016393

\* Author's Branch and Semester: CSE 1st

\* Problem description: Assignment 4  
Question 2

Program:

```
public class A4Q2 {  
    public static void main (String [] args) {  
        int i, n;  
        n = Integer.parseInt (args [0]);  
        while (i <= n)  
        {  
            if (i % 10 == 1 && i % 100 != 11)  
                System.out.println ("st Hello");  
            else if (i % 10 == 2 && i % 100 != 12)  
                System.out.println ("nd Hello");  
            else if (i % 10 == 3 && i % 100 != 13)  
                System.out.println ("rd Hello");  
            else  
                System.out.println ("th Hello");  
            i++;  
        }  
    }  
}
```

\* Author's Name: Kumara Ponthsorathi

\* Author's Regd. No: 2141016393

\* Author's Branch and Semester: CSE 1st.

\* Problem description: Assignment 4  
Question 3

Program:

Count to : 20  
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
16 17 18 19 20.

```
import java.util.*;
```

```
public class A4Q3 {
```

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

```
int n;
```

```
Scanner sc = new Scanner (System.in);
```

```
System.out.println ("enter n");
```

```
n = sc.nextInt();
```

```
for (i = 0; i <= n; i++) {
```

```
}
```

```
System.out.print (i + " ");
```

```
}
```

```
}
```

```
}
```

- \* Author's Name: Skumar Ponthanath
- \* Author's Regd. No: 2141016393
- \* Author's Branch and Semester: CSE 1st.
- \* Problem description: Assignment 4  
Question 4.

Program:

Count from: 4

Count to : 13

Count by : 3.

4, 7, 10, 13

```
import java.util.*;  
public class A4Q4 {  
    public static void main (String [] args) {  
        int cf, ct, cb;  
        Scanner sc = new Scanner (System.in);  
        System.out.println ("Enter the countFrom");  
        cf = sc.nextInt();  
        System.out.println ("Enter the count to");  
        ct = sc.nextInt();  
        System.out.println ("Enter the count by");  
        cb = sc.nextInt();  
        for (i = cf; i <= ct; i += cb)  
            System.out.println (i + " ");  
    }  
}
```

- \* Author's Name: Skumon Ponthsooth
- \* Author's Regd. No: 21411016393
- \* Author's Branch and Semester: CSE 1st.
- \* Problem description: Assignment 4  
Question 5

Program:

```
public class A4Q5 {  
    public static void main (String [] args) {  
        double x  
        for (x = -2 ; x <= 2 ; x += 0.5)  
            {  
                System.out.println (x);  
            }  
    }  
}
```

- 3
- \* Author's Name: Skumon Ponthsooth
  - \* Author's Regd. No: 21411016393
  - \* Author's Branch and Semester: CSE 1st.
  - \* Problem description: Assignment 4  
Question 6.

```
public class A4Q6 {  
    public static void main (String [] args) {  
        int i, count = 0;  
        for (i = 1000 ; i <= 2000 ; i++)  
            {  
                System.out.println (i + " ");  
                count++;  
                if (count % 5 == 0)
```

System.out.println();

}

}

}

\* Author's Name: Kumaresan Puthusothan

\* Author's Regd. No: 2141016393

\* Author's Branch and Semester: CSE 1st.

\* Author's Assignment: Assignment 4

\* Problem description: Question 7.

public class Q4Q7 {

public static void main(String[] args) {

int n;

double avg = 0, sum = 0;

n = Integer.parseInt(args[0]);

for (i = 1; i <= n; i++) {

{

r = Math.random();

System.out.println("Random no." + r);

sum += r;

}

System.out.println("Sum of random numbers:" + sum);

avg = sum / n;

System.out.println("Average is " + avg);

}

}

- \* Author's Name: Skumar Ponthsonath
- \* Author's Regd. No: 2141016393
- \* Author's Branch and Semester: CSE 1st.
- \* Problem description: Assignment 4  
Question 8

Public class A4Q8 {

public static void main (String [] args) {

int i, j,

String p = " ";

for (i = 1; i <= 5; i++) {

{

pt = i + p;

System.out.println(pt);

}

}

}

Output: 1

121

1213121

121312141213121

12131214121312151213121...

121312141213121...41213121

\* Author's Name: Skumar Ponthsonath:

Regd. No: 2141016393

\* Author's Branch and Semester: CSE 1st.

\* Problem description: Assignment 4

Question 9

Public class A4Q9 {

public static void main (String [] args) {

Name: Skumar  
Ponthsonath

1

Regd. Number: 2141016393

```
int i, sum = 0;
for (i = 1; i <= 1000; i++)
{
    if ((i % 3 == 0) || (i % 5 == 0))
        sum += i;
}
System.out.println("Sum of multiples of 3 & 5 below
                    1000 is : " + sum);
```

\* Author's Name: Skumon Ponthroothi  
\* Author's Regd. No: 2141016393  
\* Problem description: Assignment 4 question 10

```
import java.util.Scanner;
public class A4Q10 {
    public static void main (String [] args) {
        int i, n = 0;
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter a number whose
                            multiplication table you want to find:");
        int num = sc.nextInt();
        for (i = 1; i <= 10; i++) {
            n = num * i;
            System.out.println (num + "x" + i + "=" + n);
        }
    }
}
```

N

D

F

Department of Computer Science & Engineering  
 Faculty of Engineering & Technology (ITER)

- \* Author's Name: Skumar Ponthsorath
- \* Author's Regd. No: 0141016393
- \* Author's Branch and Semester: CSE 1st
- \* Problem description: Assignment 4  
Question 11

public class Aq11 {

public static void main (String [ ] args) {  
 int i, sum1 = 0, sum2 = 0, d:ub = 0, a: = 0;  
 for (i = 1; i <= 10; i++) {

{

sum1 += i \* j;

sum2 += i;

}

a: = sum2 \* sum2;

d:ub = 5 - sum1;

System.out.println ("The sum of squares of the  
integers = " + sum1);

System.out.println ("The sum of squares of the  
integers = " + 5);

System.out.println ("The difference of sum1  
and sum2 is : " + d:ub);

}

}

\* Author's Name: Skumar Ponthsorath

\* Author's Regd. No: 0141016393

\* Author's Branch and Semester: CSE 1st

\* Problem description: Assignment 4  
Question 12.

```
public class A4q12 {  
    public static void main(String[] args) {  
        int N;  
        double S = 0, T = 0, P = 0;  
        System.out.println("log N, N, NlogN,  
                            N2, N3, 2N");  
        for (N = 16; NL = 2048; N = N * 2);  
    }  
}
```

```
System.out.println(Math.log(N) + "\t" + N + "\t"  
+ N * Math.log(N) + "\t" + Math.pow(N, 2) +  
"\t" + Math.pow(N, 3) + "\t" + Math.pow(2, N));  
}  
}  
}
```

- \* Author's Name : Skumar Parthasarathy
- \* Author's Regd. No: 2141016393
- \* Author's Branch and Semester: CSE 1st.
- \* Problem description: Assignment 4  
Question 13.

```
import java.util.*;  
public class A4q13 {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        int n; n = 0, S = 0;  
        System.out.println("Enter the number");  
        n = sc.nextInt();  
    }  
}
```

```
int n1 = n;  
while (n>0)  
{  
    r = n%10;  
    st = st + r;  
    n1 = n1 / 10;
```

```
System.out.println(st);
```

```
}
```

```
if (st % 9 == 0)
```

```
System.out.println("n1 + " is divisible by 9");
```

```
else
```

```
System.out.println("n1 + " is not divisible by 9");
```

```
}
```

```
}
```

\* Author's Name: Kumaresan Pauthsanthi

\* Author's Regd. No: 2141016393

\* Author's Branch and Semester: CSE 1st.

\* Problem description: Assignment 4

\* Problem description: Question 14.

```
import java.util.*;  
public class Q4q14 {  
    public static void main (String [] args) {  
        Scanner sc = new Scanner (System.in);  
        int n;  
        double s = 0, rem = 0;  
        System.out.println ("Enter the value of n");  
    }  
}
```

```
n = sc.nextInt();
int x = 0;
int v = 1;
while (v <= n)
{
    x = v;
    v = v * 2;
}
System.out.println(x);
```

\* Author's Name : Kumaresan Ponthanath  
\* Author's Regd. No: 2141016393  
\* Problem description: Assignment 4  
Question 15.

```
public class A4Q15
public static void main (String [] args)
{
    int i = 1;
    while (i <= 4)
    {
        j = 1;
        while (j <= 4)
        {
            System.out.println ("*");
            j++;
        }
        System.out.println ();
        i++;
    }
}
```

\* Author's Name: Kumara Ponthsonath

\* Author's Regd. No: 2141016393

\* Author's Branch and Semester: CSE 1st.

\* Problem description: Assignment 4  
Question 1b.

```
public class A4q16a {  
    public static void main (String [] args) {  
        int i, j;  
        for (i = 1; i <= 5; i++) {  
            for (j = 1; j <= i; j++) {  
                System.out.print ("*");  
            }  
            System.out.println ();  
        }  
    }  
}
```

```
public class A4q16b {  
    public static void main (String [] args) {  
        int i, j;  
        for (i = 1; i <= 5; i++) {  
            for (j = 1; j <= i; j++) {  
                System.out.print (j + " ");  
            }  
            System.out.println ();  
        }  
    }  
}
```

Public class A4q16c {

public static void main (String [ ] args) {

int i, j;

for (i = 1; i <= 5; i++) {

{  
for (j = 1; j <= i; j++)

{  
System.out.print (i + " ");

System.out.println ();

} } }

Public class A4q16d {

public static void main (String [ ] args) {

int i, j, k = 1

for (i = 1; i <= 5; i++) {

{

for (j = 1; j <= i; j++) {

{

System.out.print (k);

k++;

}

System.out.println ();

}

}

}

- \* Author's Name: Skumar ParthSonth
- \* Author's Regd. No: 2141016393
- \* Author's Branch and Semester: CSE (Ist)
- \* Problem description: Assignment 4  
Question 14.

```
import java.util.Scanner;
public class A4Q14 {
    public static void main (String [] args) {
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter the value of n");
        int n = sc.nextInt ();
        for (int i = 1; i <= n; i++) {
            if ((i % 3 == 0) || (i % 5 == 0))
                System.out.print ("*");
            else
                System.out.print (" ");
        }
        System.out.println ();
    }
}
```