* Practice Programmes for OOJ lab - Week 2:

① Write a Java prog. to print "Hello world" :

Sol:

```
class Hello {
    public static void main (string args[]) {
        System.out.println ("Hello World");
    }
}
```

② To find largest of three numbers:

Sol:

```
import java.util.Scanner;
class Largest {
    public static void main (string args[]) {
        System.out.println ("Enter the three nos");
        Scanner input = new Scanner (System.in);
        int a = nextInt(); input.nextInt();
        int b = nextInt(); input.nextInt();
        int c = nextInt(); input.nextInt();
```

```
if (a>=b && a>=c)
{
System.out.printfn(" a + " is the largest");
else
if (b<=a && b<=c)
{
System.out.println(b + " is the
largest");
else
{
System.out.println(c + " is largest");
}
}
}
```

(3) print values from 1 to n by taking input from the user :

Sol$\hat{n}$:

```
import java.util.Scanner;
class num {
public static void main (String args[]) {
```

```
Scanner input = new Scanner(System.in);
System.out.println("Enter the number");
int a = input.nextInt();
for (int i=1 ; i<=n ; i++) {
    System.out.println(" " a+"\n");
}
}
}
```

(4) Java program to accept number n and print n rows of output :

Ex: if n=4

output :

```
1
2 3
4 5 6
7 8 9 10
```

```
import java.util.Scanner;
class main
{
public static void main (String [] args)
{
```

```
System.out.println("Enter n");
Scanner input = new Scanner(System.in);
int n = input.nextInt();
int a = 1;
System.out.println();
for(int i=1; i<=n ; i++) {

    for(int j=0; j<i ; j++) {

        System.out.print(a);
        a++;
    }

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

(5) write program to accept CJE marks (out of 50) and SEE marks (out of 100) of a student and print his/her grade.

Soln:

```
import java.util.Scanner;

class grade {

public static void main(String args[]) {

    System.out.println("Enter your CJE
                        marks");
    Scanner input = new Scanner(System.in);
```

Float a = input.nextFloat();

while (a > 50 || a < 0)
{
System.out.println("Enter a valid CIE marks");
a = input.nextInt();
}

System.out.println("Enter your SEE marks");
float b = input.nextFloat();
while (b < 0 || b > 100) {

System.out.println("Enter a valid SEE marks");
b = input.nextInt();
}

float [illegible] = (a + b/2);

```
if (res <= 100 && res >= 90)
    {
        System.out.println("Student has secured 'S' grade");
    }
else if (res <= 90 && res > 80)
    {
        System.out.println("Student has secured 'A' grade");
    }
else if (res <= 80 && res > 70)
    {
        System.out.println("Student has secured 'B' grade");
    }
else if (res <= 70 && res > 60)
    {
        System.out.println("Student has secured 'C' grade");
    }
else if (res <= 60 && res > 50)
    {
        System.out.println("Student has secured 'D' grade");
    }
else if (res <= 50 && res >= 40)
    {
        System.out.println("Student has secured 'E' grade");
    }
else
    {
        System.out.println("Student has secured 'F' grade");
    }
}
```

(6) print prime numbers in between given two integers (inclusive).

Soln:

```
import java.util.Scanner;

class prime {

    public static void main (String [] args) {

    int n, m, i, prime;
    System.out.println ("Enter the two nos");
    Scanner input = new Scanner (System.in);

    m = input.nextInt();
    n = input.nextInt();

    for (i=2; i<=n; i++) {
        prime = 1;
        for (j=2; j<i/2; j++) {

            if (i%j == 0) {
                prime = 0;
                break;

            }
        }

        if (prime == 1 && i>2m) {

            System.out.println (i);

        }
    }
}
```