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LAB - 2

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① Write a JAVA program to print "HELLO WORLD".

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

② Write a JAVA program to find largest of three numbers using if construct.

```
import java.util.Scanner;
Public class Largest {
Public static void main (String args[]) {
int a, b, c, largest;
Scanner in = new Scanner (System.in);
System.out.println ("Enter the first number: \n");
    a = in.nextInt();
System.out.println ("Enter the second number: \n");
    b = in.nextInt();
System.out.println ("Enter the third number: \n");
    c = in.nextInt();
if (a >= b && a >= c)
System.out.println (a + " is the largest number.");
else if (b >= a && b >= c)
System.out.println (b + " is the largest number.");
else
System.out.println (c + " is the largest number.");
}
}
```

(3) Write a JAVA program to print the values from 1 to n by taking input from the user.

```
import java.util.Scanner;
class print {
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
System.out.println("Enter the value of n : ");
   int n = in.nextInt();
System.out.println("Numbers are :");
for(int i=1; i<=n; i++).
{
  System.out.println(i);
}
}
}
```

(4) Write a JAVA program to accept a number n from user and print n rows of output as given below if n=4.

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

```
import java.util.Scanner;
class pattern {
public static void main(String args[]) {
Scanner in=new Scanner(System.in);
System.out.println("Enter row value:"\n);
   int n = in.nextInt();
     int K=1;
for(int i=1; i<=n; i++) {
for(int j=1; j<=i; j++) {
System.out.println("It");
     K++;
}
}
```

(5) Write a JAVA program to accept the CIE marks (out of 50) and SEE marks (out of 100) of a student and print his/her grade. Use if... else if ladder.

```
import java.util.*;
class marks {
public static void main (String args[]) {
  int CIE, SEE, total;
Scanner in = new Scanner (System.in);
System.out.println ("Enter the CIE marks:");
    CIE = in.nextInt();
System.out.println ("Enter the SEE marks:");
    SEE = in.nextInt();
total = (CIE + (SEE/2));
 if (total >= 90)
 System.out.println("Your grade is A.\n");
else if (total >= 80)
System.out.println ("Your grade is B.\n");
else if (total >= 60)
System.out.println ("Your grade is C\n");
else if (total >= 50)
System.out.println ("Your grade is D\n");
else
System.out.println ("Your grade is F\n");
}
}
```

(6) Write a C/JAVA program to print the prime numbers between two integers (inclusive). Accept these two integers from the user.

```
import java.util.Scanner;
class Prime {
 public static void main (String args[]) {
 Scanner in = new Scanner (System.in);
System.out.println ("Enter starting number:");
 int start = in.nextInt();
```

```
System.out.println("Enter ending number : ");
 int end = in.nextInt();
System.out.println("Prime numbers between "+start+" and
                    "+end+" are : ");

int count;
for(int i = start ; i<=end ; i++)
{
 count = 0;
 for(int j=2 ; j<=i/2 ; j++)
 {
  if(i % j == 0)
    count = count + 1;
 }
  if(count == 0)
System.out.println(i+"  ");
}
}
}
```