Java OOJ

1. Write a Java program to print "HelloWorld"

Soln.
```
public class HelloWorld
{
 public static void main (String args[])
 {
  System.out.println ("Hello world");
 }
}
```

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

Soln.
```
public class Largest
{
 public static void main ( String args[])
 {
 int a = 10, b = 20, c = 15 , largest;
 if (a > b)
    {
       if (a > c)
         largest = a;
       else
         largest = c;
    }
 else
    {
       if (b > c)
```

```
            largest = b;
        else
            largest = c;
    }
    System.out.println("Largest = " + largest);
  }
}
```

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

Soln.
```
import java.util.Scanner;
class Numbers
{
  public static void main (String[] args)
  {
  int n;
  Scanner in = new Scanner (System.in);
    System.out.print("Enter a number: ");
    n = in.next();
    System.out.print("Numbers upto nare :");
  for (int i=0; i<n; i++)
   {
     System.out.print(i+" ");
   }
}
}
```

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

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

Soln.

```
import java.util.*;
Class Pattern
{
 public static void main (String[]args)
  {
  int n, count = 1;
  Scanner in = new Scanner (System.in);
   System.out.print (" Enter a number: ");
   n = in.next Int();
  for (int i = 1; i <= n; i++)
   {
    for (int i = 1; i <= n; i++)
     {
       System.out.print (count + " ");
       count ++;
     }
       System.out.print ("\n");
   }
}
}
```

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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.

Soln.
```
import java.util.*;
import java.lang.*;
class Grade
{
  public static void main (String args[])
  {
    int cie, see, mark;
    char grade = '*';
    Scanner in = new Scanner (System.in);
    System.out.print ("Enter CIE marks: ");
    cie = in.next();
    System.out.print ("Enter SEE marks: ");
    see = in.nextInt();
    mark = see + cie;
  if (mark > 100)
  {
      System.out.println ("Invalid marks");
      System.exit(0);
  }
  else if (mark >= 90)
    grade = 'S';
  else if (mark >= 80)
    grade = 'A';
  else if (mark >= 70)
    grade = 'B'
```

```
else if (mark >= 60)
    grade = 'C';
else if (mark >= 40)
    grade = 'D';
else
    grade = 'F';
System.out.println("Grade :" + grade);
}
}
```

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

Soln.
```
import java.util.*;
class PrimeNumbers
{
public static void main (String args[])
{
int m, n, status;
Scanner in = new Scanner (System.in);
System.out.print ("Enter m: ");
m = in.nextInt();
System.out.print ("Enter n: ");
n = in.nextInt();
System.out.print ("Prime numbers between
                   m and n are:\n");
if (m==0 || m==1)
{
System.out.print ("1\n");
```

```
        m=2;
    }
for (int i=m; i<=n; i++)
    {
      status 0;
      for (int j=2; j<=i/2; j++)
        {
          if (i%j==0)
          {
            status=1;
            break;
          }
        }
      if (status==0)
        {
          System.out.println(i);
        }
    }
  }
}
```