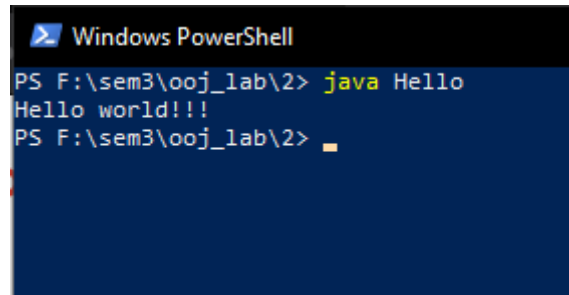


1) Write a Java Program to Print Hello World

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

A screenshot of a Windows PowerShell terminal window. The title bar reads "Windows PowerShell". The command prompt shows the directory "F:\sem3\ooj_lab\2". The user enters the command "java Hello", and the output is "Hello world!!!". The prompt then returns to "PS F:\sem3\ooj_lab\2>".

```
PS F:\sem3\ooj_lab\2> java Hello
Hello world!!!
PS F:\sem3\ooj_lab\2>
```

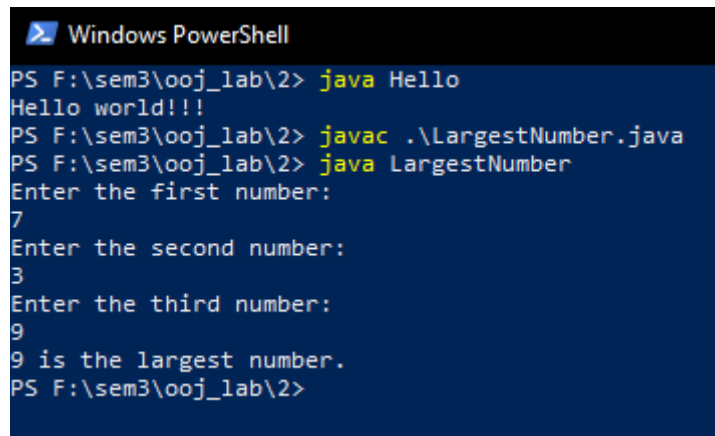
2 Write a Java program to find largest of three numbers using if construct

```
import java.util.Scanner;
class LargestNumber
{
    public static void main(String[] args)
    {
        int a, b, c;
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the first number:");
        a = in.nextInt();
        System.out.println("Enter the second number:");
        b = in.nextInt();
        System.out.println("Enter the third number:");
        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.");
}
}

```



A screenshot of a Windows PowerShell terminal window. The title bar reads 'Windows PowerShell'. The terminal shows the following commands and output:

```

PS F:\sem3\ooj_lab\2> java Hello
Hello world!!!
PS F:\sem3\ooj_lab\2> javac .\LargestNumber.java
PS F:\sem3\ooj_lab\2> java LargestNumber
Enter the first number:
7
Enter the second number:
3
Enter the third number:
9
9 is the largest number.
PS F:\sem3\ooj_lab\2>

```

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

```

import java.util.Scanner;

class Numbers
{
    public static void main(String args[])
    {
        int n;
        Scanner in =new Scanner(System.in);
        System.out.println("Enter a number:");
        n= in.nextInt();
        for (int i=1 ;i<=n ;i++)
        {
            System.out.println(i+" ");
        }
    }
}

```

}

```
PS F:\sem3\ooj_lab\2> javac .\Numbers.java
PS F:\sem3\ooj_lab\2> java Numbers
Enter a number:
9
1
2
3
4
5
6
7
8
9
PS F:\sem3\ooj_lab\2> █
```

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.

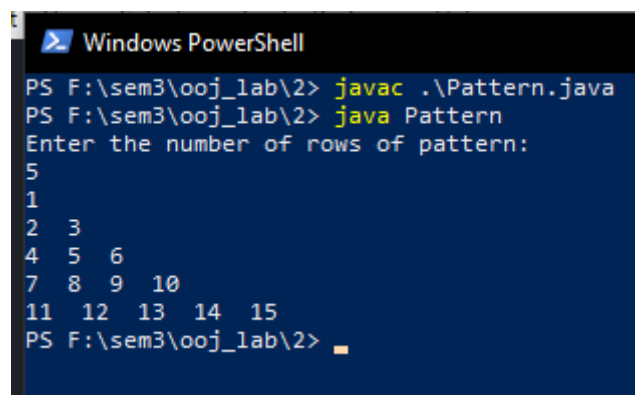
```
1
2 3
4 5 6
7 8 9 10
```

```
import java.util.Scanner;
class Pattern
{
    public static void main(String args[])
    {
        int n, c=1;
        Scanner in =new Scanner(System.in);
        System.out.println("Enter the number of rows of pattern:");
        n= in.nextInt();
```

```

    for (int i=1 ;i<=n ;i++)
    {
        for (int j=1 ;j<=i ;j++,c++)
            System.out.print(c+"");
        System.out.println();
    }
}
}

```



The screenshot shows a Windows PowerShell window with the following commands and output:

```

PS F:\sem3\ooj_lab\2> javac .\Pattern.java
PS F:\sem3\ooj_lab\2> java Pattern
Enter the number of rows of pattern:
5
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
PS F:\sem3\ooj_lab\2>

```

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... elseif ladder

```
import java.util.Scanner;
```

```
class Grade
```

```
{
```

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

```
    {
```

```
        int CIE,SEE, total ;
```

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

```
        System.out.println("Enter the CIE marks (out of 50):");
```

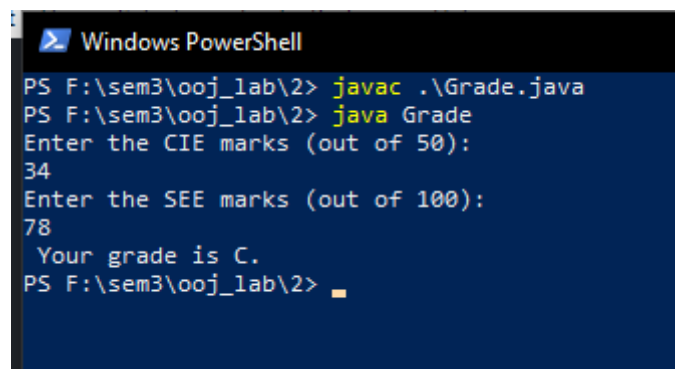
```
        CIE= in.nextInt();
```

```
        System.out.println("Enter the SEE marks (out of 100):");
```

```

SEE = in.nextInt();
total= CIE+ SEE/2;
if(total>=90)
    System.out.println(" Your grade is A.");
else if (total>=80)
    System.out.println(" Your grade is B.");
else if (total>=60)
    System.out.println(" Your grade is C.");
else if (total>=40)
    System.out.println(" Your grade is D.");
else
    System.out.println(" Your grade is E.");
}
}

```



```

> Windows PowerShell
PS F:\sem3\ooj_lab\2> javac .\Grade.java
PS F:\sem3\ooj_lab\2> java Grade
Enter the CIE marks (out of 50):
34
Enter the SEE marks (out of 100):
78
Your grade is C.
PS F:\sem3\ooj_lab\2>

```

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

```

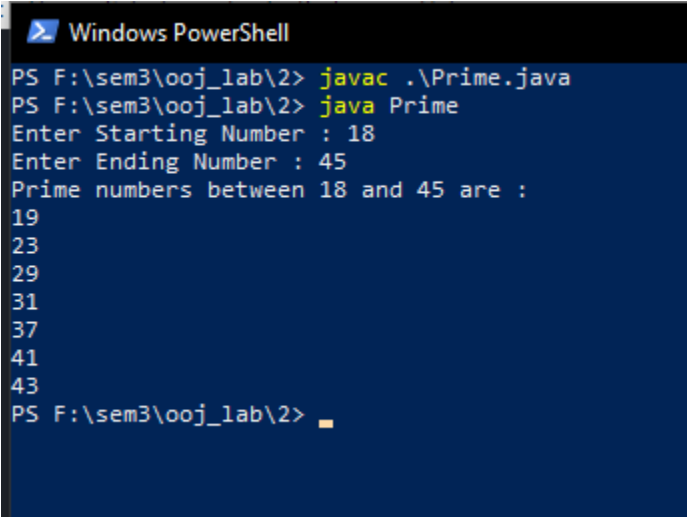
import java.util.Scanner;
class Prime
{
    public static void main(String[] args)

```

```

{
    Scanner in=new Scanner(System.in);
    System.out.print("Enter Starting Number : ");
    int start = in.nextInt();
    System.out.print("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+" ");
    }
}
}

```



```

Windows PowerShell
PS F:\sem3\ooj_lab\2> javac .\Prime.java
PS F:\sem3\ooj_lab\2> java Prime
Enter Starting Number : 18
Enter Ending Number : 45
Prime numbers between 18 and 45 are :
19
23
29
31
37
41
43
PS F:\sem3\ooj_lab\2>

```