

Experiment: 1

Aim: Write a Java program that prompts the user for an integer and then prints out all the prime numbers up to that Integer.

Software: VS Code

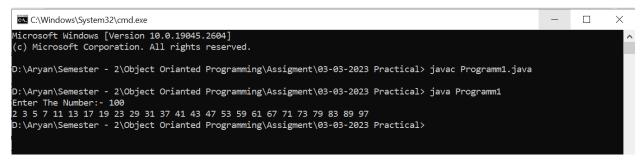
Code:-

```
import java.util.*;
public class Programm1
    public static void main(String args[])
        Scanner sc = new Scanner (System.in);
        int n,j,i;
        System.out.print("Enter The Number:-");
        n = sc.nextInt();
        for(i=2;i<=n;i++)</pre>
            for(j=2;j<i;j++)
                if(i%j==0)
                     break;
            }
            if(i==j)
                System.out.print(i + " ");
```

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Output:



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Experiment: 2

Aim: Write a java program to find the Fibonacci series using non-recursive Functions.

Software: VS Code

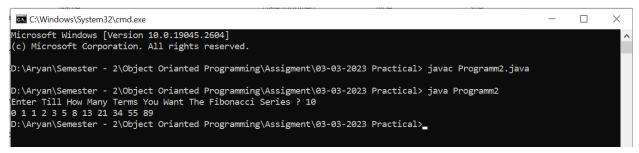
Code:

```
import java.util.*;
public class Programm2
    public static void main (String args[])
        Scanner sc = new Scanner (System.in);
        int a=0,b=1,num;
        System.out.print("Enter Till How Many Terms You Want The Fibonacci Series
?");
        num = sc.nextInt();
        System.out.print(a + " " + b + " ");
        Fibonacci(num);
    public static void Fibonacci(int num)
        int a=0,b=1,c;
        for(int i=1;i<=num;i++)</pre>
            c = a + b;
            System.out.print(c + " ");
            a=b;
            b=c;
        }
```

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Output:



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Experiment: 3

Aim: Write a java program to find the Fibonacci series using recursive Functions.

Software: VS Code

Code:-

```
import java.util.*;
public class Programm3
    public static void main(String args[])
        Scanner sc =new Scanner (System.in);
        int num, a=0, b=1;
        System.out.println("Enter Till How Many Terms You Want The Fibonacci
Series?");
        num = sc.nextInt();
        System.out.print(0 + " " + 1 + " ");
        int c = Fibonacci(a,b,num);
        System.out.print(c + " ");
    public static int Fibonacci(int x,int y,int num)
        num--;
        int z=x+y;
        if(num<=2)</pre>
            return x + y;
```

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```
else
{
    System.out.print(z + " ");
    return Fibonacci(y,z,num);
}
}
```

Output: