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Department of Information and Communication
Technology

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++)
        {
            for(j=2;j<i;j++)
            {
                if(i%j==0)
                {
                    break;
                }
            }

            if(i==j)
            {
                System.out.print(i + " ");
            }
        }
    }
}
```

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Output:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.2604]
(c) Microsoft Corporation. All rights reserved.

D:\Aryan\Semester - 2\Object Orianted Programming\Assigment\03-03-2023 Practical> javac Program1.java

D:\Aryan\Semester - 2\Object Orianted Programming\Assigment\03-03-2023 Practical> java Program1
Enter The Number:- 100
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97
D:\Aryan\Semester - 2\Object Orianted Programming\Assigment\03-03-2023 Practical>
```

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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++)
        {
            c = a + b;
            System.out.print(c + " ");
            a=b;
            b=c;
        }
    }
}
```

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Output:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.2604]
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D:\Aryan\Semester - 2\Object Orianted Programming\Assigment\03-03-2023 Practical> javac Programm2.java

D:\Aryan\Semester - 2\Object Orianted Programming\Assigment\03-03-2023 Practical> java Programm2
Enter Till How Many Terms You Want The Fibonacci Series ? 10
0 1 1 2 3 5 8 13 21 34 55 89
D:\Aryan\Semester - 2\Object Orianted Programming\Assigment\03-03-2023 Practical>_
```

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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)
        {
            return x + y ;
        }
    }
}
```

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

Output:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.2604]
(c) Microsoft Corporation. All rights reserved.

D:\Aryan\Semester - 2\Object Orianted Programming\Assigment\03-03-2023 Practical> javac Programm3.java

D:\Aryan\Semester - 2\Object Orianted Programming\Assigment\03-03-2023 Practical> java Programm3
Enter Till How Many Terms You Want The Fibonacci Series?
10
0 1 1 2 3 5 8 13 21 34
D:\Aryan\Semester - 2\Object Orianted Programming\Assigment\03-03-2023 Practical>_
```

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