Name : Anupam Kunwar
Reg : 19BCE1369
Week-9_Part-1

Q1.

```
import java.util.Scanner;

class fibbonacci extends Thread {
int n;

fibbonacci(int a) {
n = a;
}

public void run() {
int a, b, c, i;
a = 0;
b = 1;
i = 0;
System.out.println("Fibbonacci Series");
System.out.print(a + " " + b);
while (i <= n - 2) {
c = a + b;
System.out.print(" " + c);
a = b;
b = c;
i++;
}
System.out.println();
return;
}
}

class Prime extends Thread {
int n;

Prime(int a) {
n = a;
}

public void run() {
System.out.print("Prime factors : ");
while (n % 2 == 0) {
System.out.print(2 + " ");
n /= 2;
}
for (int i = 3; i <= Math.sqrt(n); i += 2) {
while (n % i == 0) {
System.out.print(i + " ");
n /= i;
```

```
}
}
if (n > 2)
System.out.print(n);
System.out.println();
return;
}
}

public class fibPrime{
public static void main(String[] args) {
Scanner in = new Scanner(System.in);
int n;
System.out.print("Enter a number : ");
n = in.nextInt();
try{
fibbonacci fib = new fibbonacci(n);
fib.start();
fib.sleep(4000);
Prime pri = new Prime(n);
pri.start();
}
catch(Exception e){
e.printStackTrace();
}
}
}
```

Output :