**Name: NEHA M**

**Roll No:24**

**Batch:MCA-B**

**Date:01-06-2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No :04**

**Aim**

Define 2 classes; one for generating Fibonacci numbers and other for displaying even numbers in a given range. Implement using threads. (Runnable Interface)..

**Procedure**

import java.util.Scanner;

class Fibonacci implements Runnable

{

int n,first,second,t;

String str;

public Fibonacci(int num)

{

n = num;

first = 0;

second = 1;

}

public void run()

{

str = first+" "+second;

for(int i=0;i<=n-3;i++)

{

t = first + second;

first = second;

second = t;

str += " "+t;

}

System.out.println(str);

}

}

class Even implements Runnable

{

int n;

String str;

public Even(int n)

{

this.n = n;

str = "";

}

public void run()

{

for(int i=0;i<n;i=i+2)

if(i%2==0)

{

str+=i+" ";

}

System.out.println(str);

}

}

public class Fibbonoci\_Even {

public static void main(String[] args) throws InterruptedException {

int n1,n2;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the range to see the Fibanocci Series: ");

n1 = sc.nextInt();

Fibonacci fib = new Fibonacci(n1);

Thread th = new Thread(fib);

th.start();

Thread.sleep(400);

System.out.println("Enter the range of even numbers: ");

n2 = sc.nextInt();

Even e = new Even(n2);

Thread th2 = new Thread(e);

th2.start();

sc.close();

}

}

**Output Screenshot**

