**Name: VISHNU SADASIVAN**

**Roll No:52**

**Batch:B**

**Date:02-06-22**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 23**

**Aim:**

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

**Program:**

import java.util.Scanner;

class Fibonacci extends Thread{

int size;

Fibonacci(int size){

this.size=size;

}

public void run(){

int num1=0, num2=1;

System.out.print("Fibonacci Series is::- 0,1,");

for(int i=2;i<size;i++){

int temp=num1;

num1= num2;

num2= temp+num1;

System.out.print(num2+", ");

}

}

}

class Even extends Thread{

int range;

Even(int range){

this.range= range;

}

public void run(){

for(int i=0;i<range;i++){

if(i%2==0){

System.out.println(" The even number : "+i);

}

}

}

}

public class Fibeven

{

public static void main(String[] args)

{

int size, range;

Scanner sc= new Scanner(System.in);

System.out.print("Enter the size of fibonacci series : ");

size= sc.nextInt();

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

range= sc.nextInt();

Fibonacci fib= new Fibonacci(size);

Even even= new Even(range);

fib.start();

even.start();

sc.close();

}

}

**OUTPUT:**

