Program:

class Prime implements Runnable

{

long j,c;

int count=0;

Prime()

{

super();

c=0;

}

public void run()

{

//for(long i=0;i<=20;i++)

int i=0;

while(count!=20)

{

for(j=2;j<=i;j++)

{

if(i%j==0)

break;

}

if(j==i)

{

c++;

System.out.println(c+"th" +" Prime no: = "+i);

count++;

}

i++;

}

}

}

class Fib implements Runnable

{

long a,b,c,n;

Fib()

{

a=c=n=0;

b=1;

}

public void run()

{

while(n++<15)

{

System.out.println(n+"th" +" Fib no: = "+a);

c=a+b;

a=b;

b=c;

try

{

if(n==50)

{

System.out.println("Thread fibonacci is put into sleep.");

Thread.sleep(500);

}

}

catch(InterruptedException e)

{

System.out.println("Error : " + e);

}

}

}

}

public class MyPriFib {

public static void main(String[] args) {

Thread ct=Thread.currentThread();

System.out.println("Main thread name : "+ct.getName());

Prime p=new Prime();

Fib f=new Fib();

Thread fib=new Thread(f,"fibonacci");

Thread prime=new Thread(p,"prime");

fib.start();

System.out.println("Thread "+ fib.getName() + " started.");

prime.start();

System.out.println("Thread "+ prime.getName() + " started.");

}

}

Output:

D:\java>javac MyPriFib.java

D:\java>java MyPriFib

Main thread name : main

Thread fibonacci started.

1th Fib no: = 0

Thread prime started.

1th Prime no: = 2

2th Fib no: = 1

2th Prime no: = 3

3th Fib no: = 1

3th Prime no: = 5

4th Fib no: = 2

4th Prime no: = 7

5th Fib no: = 3

5th Prime no: = 11

6th Fib no: = 5

6th Prime no: = 13

7th Fib no: = 8

7th Prime no: = 17

8th Fib no: = 13

8th Prime no: = 19

9th Fib no: = 21

9th Prime no: = 23

10th Fib no: = 34

10th Prime no: = 29

11th Fib no: = 55

11th Prime no: = 31

12th Fib no: = 89

12th Prime no: = 37

13th Fib no: = 144

13th Prime no: = 41

14th Prime no: = 43

14th Fib no: = 233

15th Prime no: = 47

15th Fib no: = 377

16th Prime no: = 53

17th Prime no: = 59

18th Prime no: = 61

19th Prime no: = 67

20th Prime no: = 71