```java
class One
{
 static int Fib(int n)
 {
 if(n==1||n==2)
 return 1;
 return(Fib(n-1)+Fib(n-2));
 }
 public static void main(String Args[])
 {
 //Fibonacci Series without Recursion.
 int a=1,b=1,i=0,k=0,temp=0;
 int num=7,check=0;

 System.out.println("Fibonacci Series without Recursion:");
 for(i=1;i<=4;i++)
 {
 System.out.print(a+" ");
 System.out.print(b+" ");
 a=a+b;
 b=a+b;
 }
 //End of Fibonacci Series without Recursion.
 System.out.println();
 //Fibonacci Series with Recursion
 System.out.println("Fibonacci Series with Recursion:");
 for(i=1;i<=8;i++)
 {
 System.out.print(Fib(i)+" ");
 }
 //End of Fibonacci Series with Recursion.
 System.out.println();
 //Binary Sort On Array Elements
 int ar[]={23,1,52,16,24,3,20};
 int l = 7;
 System.out.println("Contents of Array Before Sorting:");
 for(int x:ar)
 {
 System.out.print(x+" ");
 }
 System.out.println();
 System.out.println("Contents of Array After Binary Sort in Ascending
Order:");
 for(i=0;i<l;i++)
 {
 for(k=i+1;k<l;k++)
 {
 if(ar[k]<ar[i])
 {
 temp=ar[k];
 ar[k]=ar[i];
 ar[i]=temp;
 }
 }
 }
 for(int x:ar)
```

```java
{
System.out.print(x+" ");
}
System.out.println();
System.out.println("Contents of Array After Binary Sort in Descending
Order:");
for(i=0;i<l;i++)
{
for(k=i+1;k<l;k++)
{
if(ar[k]>ar[i])
{
temp=ar[k];
ar[k]=ar[i];
ar[i]=temp;
}
}
}
for(int x:ar)
{
System.out.print(x+" ");
}

System.out.println();
System.out.println("to check prime no");
for(i=2;i<=num-1;i++)
{if(num%i==0)
    {check=check+1;}
}
if(check==0)
System.out.println(num + "is a prime number");
else
System.out.println(num +"is not a prime number");
 }
}
```