Practical No. 7(2)

```
package Prac7 2;
import java.util.List;
import java.util.*;
interface SomeSpecialNumber<T>
      public boolean match(T t);
}
class PrimeNumber implements SomeSpecialNumber<Integer>
@Override
public boolean match(Integer t) {
for (int i = 2; i < t; ++i) {</pre>
if (t % i == 0) {
return false;
return true;
}
class EvenNumber implements SomeSpecialNumber<Integer>
public boolean match(Integer t)
return (t % 2 == 0);
}
class Algorithm
public <T> int count(List<T> list, SomeSpecialNumber<T> s) {
int count = 0;
for (T type : list)
if (s.match(type))
++count;
return count;
}
public class Template
      public static void main(String[] args)
            Template tq = new Template();
            tq.testSpecificElement();
    }
      public void testSpecificElement()
            List<Integer> list = Arrays.asList(1, 4, 5, 7, 8, 9, 13, 11);
            PrimeNumber pn = new PrimeNumber();
            EvenNumber en = new EvenNumber();
```

OUTPUT:

Count of prime numbers: 5
Count of even numbers: 2