

Unique_Prime_Factors.java

```
1 import java.util.HashSet;
4
5 public class Unique_Prime_Factors {
6     static Set primeFactors(long number) {
7         long copy = number, i;
8         Set primeFactor = new HashSet<>();
9         for (i = 2; i <= copy; i++) {
10             if (copy % i == 0) {
11                 primeFactor.add(i);
12                 copy /= i;
13                 i--;
14             }
15         }
16         return primeFactor;
17     }
18
19     public static void main(String args[]) {
20         Scanner input = new Scanner(System.in);
21         long n;
22         System.out.println("Enter the number: ");
23         n = input.nextLong();
24         System.out.println("The Prime Factors of " + n + " is: "
25             + primeFactors(n));
26     }
27 }
```