CLASS: Scanner

The Scanner class is a predefined class in the java.util package, used to take input from the user at run-time.

Importing the Scanner Class

It is necessary to import the scanner class before using it:

```
1 import java.util.Scanner;
```

Creating a Scanner Object

To access the members of the scanner class, create an object:

```
1 Scanner userInput = new Scanner(System.in);
```

Useful Methods

Data Type	Method Name
byte	.nextByte();
short	.nextShort();
int	.nextInt();
long	<pre>.nextLong();</pre>
float	.nextFloat();
double	.nextDouble();
char	<pre>.next().charAt(index);</pre>

Data Type	Method Name
boolean	<pre>.nextBoolean();</pre>
String	<pre>.next(); , .nextLine();</pre>

Example: Check Whether a Number is Prime

```
import java.util.Scanner;
   class PrimeChecker {
        public static void main(String[] args) {
            Scanner userInput = new Scanner(System.in);
            System.out.print("Enter a number: ");
            int number = userInput.nextInt();
            boolean isPrime = true;
10
            if (number <= 1) {</pre>
11
                isPrime = false;
12
13
            } else {
14
                for (int i = 2; i <= number / 2; i++) {</pre>
                     if (number % i == 0) {
15
                         isPrime = false;
17
                         break;
                     }
19
                }
            }
21
22
            if (isPrime) {
23
                System.out.println(number + " is a prime number.");
24
            } else {
                System.out.println(number + " is not a prime number.");
27
28 }
```