**Scanner in java**

Scanner is a class in java.util package used for obtaining the input of the primitive types like int, double, etc. and strings. It is the easiest way to read input in a Java program.

* To create an object of Scanner class, we usually pass the predefined object System.in.
* To read numerical values of a certain data type, the method to use is nextXYZ(). For example, to read a value of type short, we can use nextShort() and so on.
* To read strings, we use nextLine() or next().

Program for using scanner.

Example-1

**import** java.util.Scanner;

**public** **class** Demo {

**public** **static** **void** multiplication(**int** no) {

**for** (**int** i = 1; i <= 10; i++) {

**int** c = no \* i;

System.***out***.println(no + "\*" + i + "=" + c);

}

}

**public** **static** **void** main(String[] args) {

System.***out***.println("Enter the number for multiplication>>");

Scanner scanner = **new** Scanner(System.***in***);

**int** x = scanner.nextInt();

System.***out***.println("value>>" + x);

*multiplication*(x);

}

}

Example-2

**import** java.util.Scanner;

**public** **class** Test{

**public** **int** add(**int** a, **int** b) {

**int** c = a + b;

**return** c;

}

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.***in***);

System.***out***.println("Enter the first number>>");

**int** firstNumber = scanner.nextInt();

//take the input from user use nextInt();

System.***out***.println("Enter the second number>>");

**int** secondNumber = scanner.nextInt();

System.***out***.println("first Number>>"+firstNumber);

System.***out***.println("second Number>>"+secondNumber);

Demo demo = **new** Demo();

**int** add=demo.add(firstNumber, secondNumber);

System.***out***.println("Addition>>"+add);

}

}

Example-3

**import** java.util.Scanner;

**public** **class** Example {

**public** **static** **void** main(String args[]) {

Scanner scanner = **new** Scanner(System.***in***);

System.***out***.println("Enter the number>>");

**int** no = scanner.nextInt();

System.***out***.println("Enter the name>>");

String name = scanner.next();

*getStudentInformation*(no, name);

}

**static** **void** getStudentInformation(**int** no, String name) {

System.***out***.println("Student no is>>" + no);

System.***out***.println("Student name is>>" + name);

}

}

Example-4

**import** java.util.Scanner;

**public** **class** Example {

**public** **static** **void** main(String args[]) {

Scanner scanner = **new** Scanner(System.***in***);

System.***out***.println("Enter the name>>");

String name = scanner.next();

*getStudentInformation*(name);

}

**static** **void** getStudentInformation(String name) {

System.***out***.println("Student name is>>" + name);

}

}