| **Subject: SBL-OOPJ** | **Class: SE-Data Science** |
|---|---|
| **Semester: III** | **A.Y. 2022-2023** |

## Experiment No. 2

❖ **Aim :** Write a Java Program for accepting input through keyboard.

❖ **Theory :**

- Java Scanner class :

  ▪ Java has a number of predefined classes, out of which **Scanner** is one of the class.

  ▪ Scanner basically used to accept input from user.

  ▪ Predefined classes are organized in the form of packages. This **Scanner** class is found in **java.util** package. So to use the Scanner class, we first need to include java.util package in ourprogram.

  ▪ We include a package in a program with the help of **import** keyword. We can either import the **java.util.Scanner** class or the entire **java.util** package.

    ▪ Adding util package in Java Proram :

      import java.util.Scanner;        //This will import just the Scanner class

      import java.util.*;        // This will import the entire java.util package

  - Object Declaration of Scanner class :

    After importing, we need to write the following statement in our program.

    Scanner s = new Scanner (System.in);

**Java Scanner Methods to Take Input**

The Scanner class provides various methods that allow us to read inputs of different types.

| Method | Description |
|---|---|
| nextInt() | : reads an int value from the user |
| nextFloat() | : reads a float value form the user |
| nextBoolean() | : reads a boolean value from the user |
| nextLine() | : reads a line of text from the user |

next()          : reads a word from the user

nextByte()     : reads a byte value from the user

nextDouble() : reads a double value from the user

nextShort()    : reads a short value from the user

nextLong()    : reads a long value from the user

Example:

```java
import java.util.Scanner;

class Main {
  public static void main(String[] args) {

    // creates an object of Scanner
    Scanner input = new Scanner(System.in);

    System.out.print("Enter your name: ");

    // takes input from the keyboard
    String name = input.nextLine();

    // prints the name
    System.out.println("My name is " + name);
  }
}
```

Output:
Enter your name: Java
My name is Java