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OOP Exercise 2

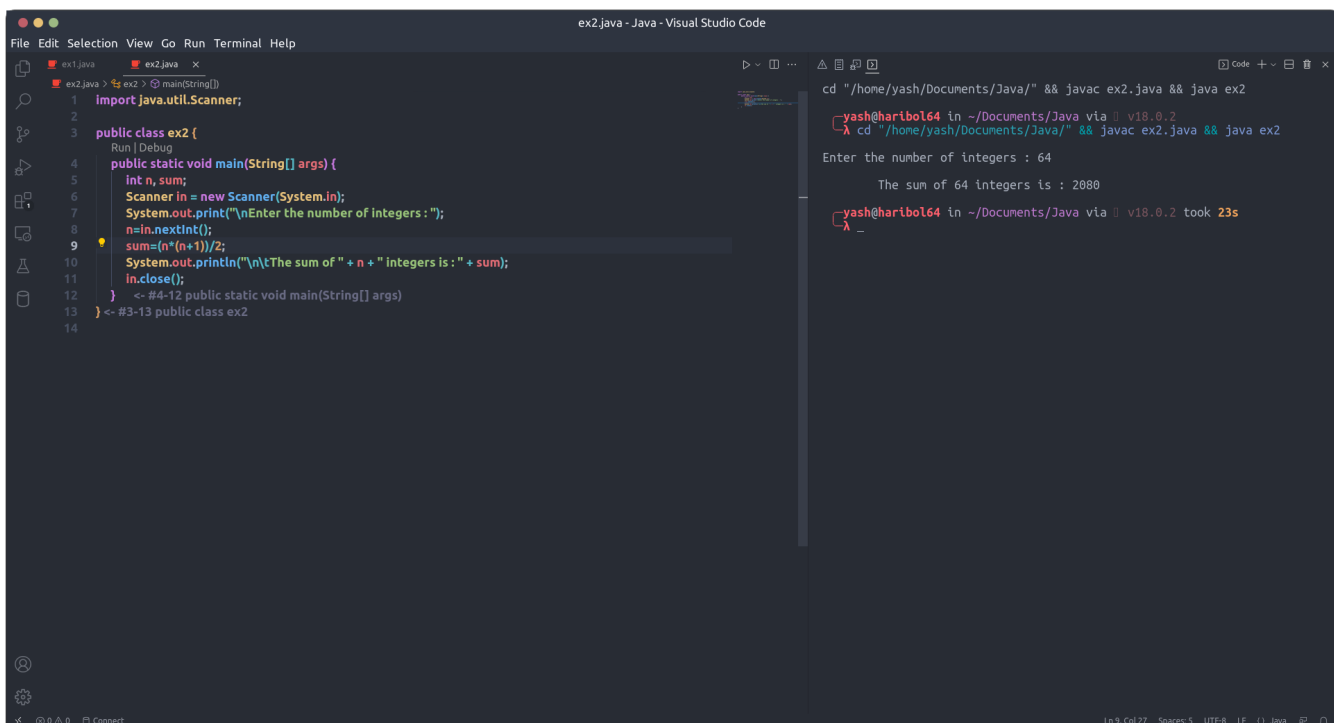
Problem : Generate the sum of 'n' integers using formula where input is provided by the user.

Code :

```
import java.util.Scanner;

public class ex2 {
    public static void main(String[] args) {
        int n, sum;
        Scanner in = new Scanner(System.in);
        System.out.print("\nEnter the number of integers : ");
        n=in.nextInt();
        sum=(n*(n+1))/2;
        System.out.println("\nThe sum of " + n + " integers is : " + sum);
        in.close();
    }
}
```

Output :



The screenshot shows the Visual Studio Code editor with a Java file named 'ex2.java'. The code is as follows:

```
1 import java.util.Scanner;
2
3 public class ex2 {
4     public static void main(String[] args) {
5         int n, sum;
6         Scanner in = new Scanner(System.in);
7         System.out.print("\nEnter the number of integers : ");
8         n=in.nextInt();
9         sum=(n*(n+1))/2;
10        System.out.println("\nThe sum of " + n + " integers is : " + sum);
11        in.close();
12    }
13 }
14
```

The output window on the right shows the execution of the program:

```
cd "/home/yash/Documents/Java/" && javac ex2.java && java ex2
yash@haribol64 in ~/Documents/Java via v18.0.2
$ cd "/home/yash/Documents/Java/" && javac ex2.java && java ex2
Enter the number of integers : 64
The sum of 64 integers is : 2080
yash@haribol64 in ~/Documents/Java via v18.0.2 took 23s
$
```