

Assignments Solution 2

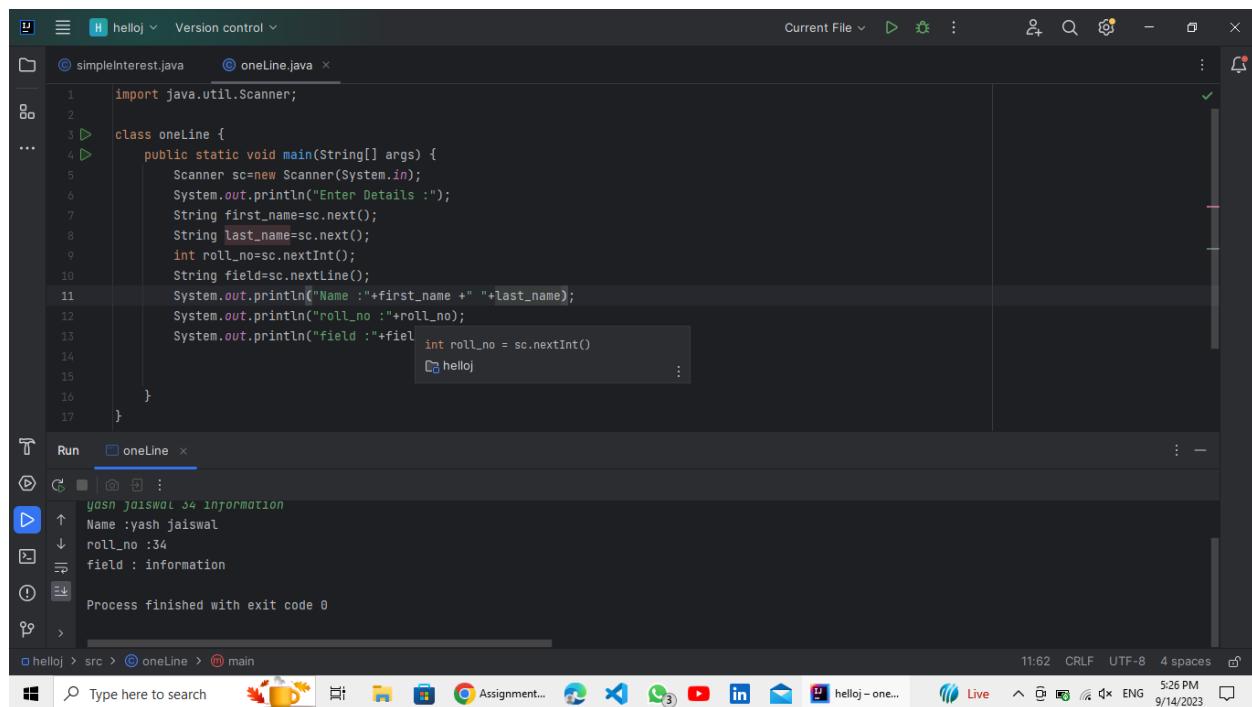
Q1 - Input name, roll number and field of interest from user and print in the format below :

Name: xyz, Roll number: xyz, Field of interest: xyz

Code-

```
import java.util.Scanner;

class oneLine {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter Details :");
        String first_name=sc.next();
        String last_name=sc.next();
        int roll_no=sc.nextInt();
        String field=sc.nextLine();
        System.out.println("Name :" +first_name + " " +last_name);
        System.out.println("roll_no :" +roll_no);
        System.out.println("field :" +field );
    }
}
```



Q2 - Input two different string and print them in same line.

Code-

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

```

class second {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the line");
        String first_word=sc.next();
        String last_word=sc.next();
        System.out.println(first_word+last_word);
    }
}

```

The screenshot shows a Java development environment with two files open: `oneLine.java` and `second.java`. The `second.java` file contains the provided code. The output window shows the program's execution: it prompts for input ('Enter the line'), reads 'level' and 'up' as separate words, and then prints them concatenated as 'level up'. The system tray at the bottom indicates the date and time as 9/14/2023, 6:18 PM.

Q3 - If the marks of Robert in three subjects are entered through keyboard (each out of 100), write a program to calculate his total marks and percentage marks.

Code-

```

import java.util.Scanner;
class percentage {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter Marks :");
        int maths=sc.nextInt();
        System.out.println("Enter Marks :");
        int eng=sc.nextInt();
        System.out.println("Enter Marks :");
        int science=sc.nextInt();
        int total_marks=maths+eng+science;
        System.out.println("Total Marks :"+total_marks);
        int divide=(total_marks/3);
        System.out.println(divide +"%");
    }
}

```

The screenshot shows a Java development environment with the following details:

- File Explorer:** Shows three files: `oneLine.java`, `second.java`, and `percentage.java`.
- Code Editor:** The `percentage.java` file contains the following code:

```
1 import java.util.Scanner;
2
3 class percentage {
4     public static void main(String[] args) {
5         Scanner sc=new Scanner(System.in);
6         System.out.println("Enter Marks :");
7         int maths=sc.nextInt();
8         System.out.println("Enter Marks :");
9         int eng=sc.nextInt();
10        System.out.println("Enter Marks :");
11        int science=sc.nextInt();
12        int total_marks=maths+eng+science;
13        System.out.println("Total Marks :" +total_marks);
14        int divide=(total_marks/5);
15        System.out.println(divide + "%");
16    }
}
```
- Run Tab:** The run configuration is set to `percentage`.
- Output Window:** Displays the program's execution:

```
40
Enter Marks :
50
Enter Marks :
60
Total Marks :150
50%
```

Process finished with exit code 0
- Bottom Status Bar:** Shows the path `Helloj > src > percentage > @ main`, and system information like time (13:36), date (9/14/2023), and battery level (33°C).

Q4 - Given two numbers, return their sum in the following format:

Int t representing number of test cases

T lines of Two integers representing the numbers to be added

Code-

```
import java.util.Scanner;
class twoInput {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int one=sc.nextInt();
        for(int i = 1; i <= one; i++) {
            int a = sc.nextInt();
            int b = sc.nextInt();
            System.out.println(a + b);
        }
    }
}
```

A screenshot of a Java development environment, likely IntelliJ IDEA, showing the execution of a Java program named 'twoInput'. The code uses a Scanner to read multiple pairs of integers from standard input and prints their sum to standard output. The run window shows several test cases with their expected outputs.

```
import java.util.Scanner;
class twoInput {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int one=sc.nextInt();
        for(int i = 1; i <= one; i++) {
            int a = sc.nextInt();
            int b = sc.nextInt();
            System.out.println(a + b);
        }
    }
}
```

Run

Input	Output
4 5	9
18 20	38
38	76
49 27	76

Process finished with exit code 0

Q5 - Given few lines of input(number of lines unknown) where each line has two strings, concatenate the strings.

Code-

```
import java.util.Scanner;

class twoString {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        while(sc.hasNextLine()){
            String a = sc.next();
            String b = sc.next();
            System.out.println(a+b);
        }
    }
}
```

The screenshot shows the IntelliJ IDEA interface with the following details:

- File Bar:** Current File, Version control.
- Project Bar:** OneLine.java, percentage.java, twoInput.java, twoString.java
- Code Editor:** Content of twoString.java:

```
import java.util.Scanner;
class twoString {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        while(sc.hasNextLine()){
            String a = sc.nextLine();
            String b = sc.nextLine();
            System.out.println(a+b);
        }
    }
}
```
- Run Tab:** Run configuration for twoString.
- Output Window:** Shows the command used to run the application and the resulting output:

```
C:\Users\hp\.jdks\openjdk-20.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.2.1\lib\idea_rt.jar=64238:C:\Program
```

Output:
Hello World
HelloWorld
Happy Faces
HappyFaces
Sunny Day
SunnyDay
Good Morning
GoodMorning
- Bottom Status Bar:** 6:17 CRLF UTF-8 4 spaces
- System Tray:** Shows battery level (29°C), network, and system status.