

4. You are developing a payroll system where you need to calculate the adjusted salary based on a percentage increase. The initial salary is given as an int, and the percentage increase is given as a double.

Questions:

1. Input:

- o Initial salary: 45000 (stored as int)
- o Percentage increase: 7.5 (stored as double)

Output:

- o Calculate the new salary after applying the percentage increase.
- o Show how type promotion affects the calculation and what the resulting salary would be.

Expected Output:

- o The new salary after a 7.5% increase should be 48375.0 (as a double).

2. Input:

- o Another initial salary: 32000 (stored as int)
- o Percentage increase: 12.3 (stored as double)

Output:

- o Calculate the new salary and discuss how type promotion is applied in the calculation.

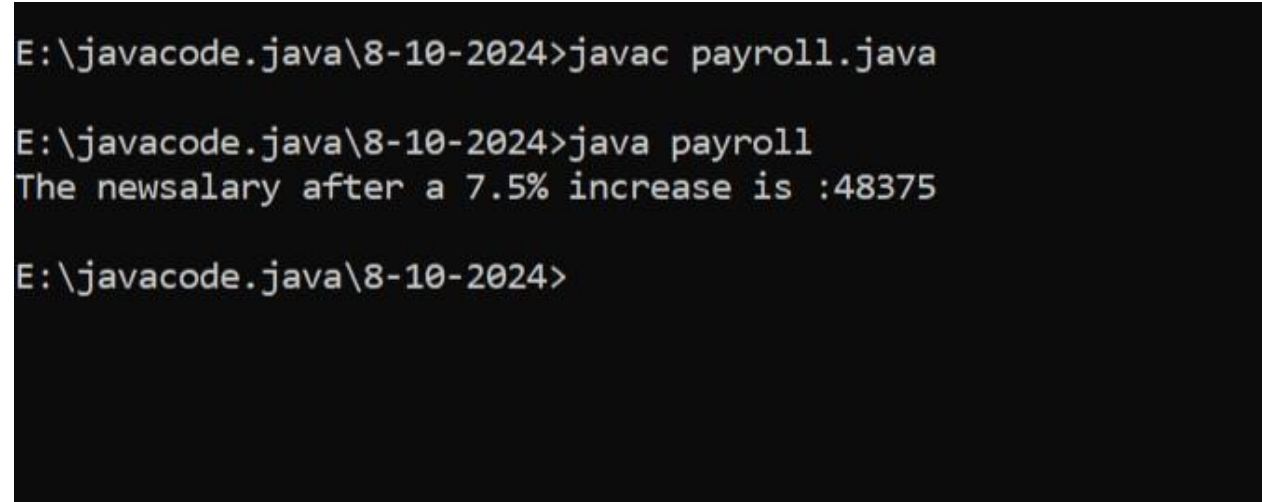
Expected Output: The new salary after a 12.3% increase should be 35976.0 (as a double).

Coding:

```
public class payroll{  
  
    public static void main(String[] args){  
  
        int initialsalary=45000;  
  
        double percentageincrease=7.5;
```

```
double multiplier =1+(percentageincrease/100);  
double newsalary=initialsalary *multiplier;  
System.out.println("The newsalary after a 7.5% increase is :\" + (int)newsalary);  
}  
}
```

Output:



```
E:\javacode.java\8-10-2024>javac payroll.java  
E:\javacode.java\8-10-2024>java payroll  
The newsalary after a 7.5% increase is :48375  
E:\javacode.java\8-10-2024>
```