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: