Degree of Freedom

JAVA PROGRAM

You Observe 100 people to see who deposits garbage in the can who litters. You want to see if there is a difference based on gender.

A person can fall in one of four categories:

- 1. Male, do not deposits garbage
- 2. Male, do not litters
- 3. Female, do not deposits garbage
- 4. Female, do not litters

Following table give you the observations

	Deposit	Litters	
Females	18 15	7	25
Males	42	33	75
	60	40	100

Explanation: From above table 60 people deposit garbage and 40 litters.

To get percentage of Female who do not deposit we find by calculating (25% of 60) females to be value in the upper left cell.

Given this information is there any significant difference in littering behaviour between men and women?

Write a Java program to find num of male and female who do not deposit and litters. Pass the values from keyboard. Using object.

```
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import java.util.*;
public class Assignment
 int num_deposited;
 int num_littered;
 int percentage_female;
 int percentage_male;
public void deposit()
 float deposited_female=(percentage_female*num_deposited)/100;
 float deposited_male=(percentage_male*num_deposited)/100;
 System.out.println("The number of female that deposited: " +
deposited_female);
 System.out.println("The number of male that deposited: " +
deposited_male);
public void littered()
 float littered_female=(percentage_female*num_littered)/100;
 float littered_male=(percentage_male*num_littered)/100;
```

```
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 System.out.println("The number of female that littered: " +
littered_female);
 System.out.println("The number of male that littered: " +
littered_male);
}
public static void main(String arg[])
 Person myobj=new Person();
 Scanner myscan=new Scanner(System.in);
 System.out.println("Enter number of people that deposited garbage: ");
 myobj.num_deposited=myscan.nextInt();
 System.out.println("Enter number of people that littered: ");
 myobj.num littered=myscan.nextInt();
 System.out.println("Enter percentage of female: ");
 myobj.percentage_female=myscan.nextInt();
 System.out.println("Enter percentage of male: ");
 myobj.percentage_male=myscan.nextInt();
 System.out.println("Analysis from the information:");
 myobj.deposit();
 myobj.littered();
 System.out.println(".....Thank you!....");
```

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