

Assignment 2

Hey! Now that you're familiar with various Java programming concepts, so it's time for the assignment and polish our programming skills.

Problem Statement: Vaibhav has just completed his first year of Job. He is really happy about it but at the same time he needs to pay taxes to government on what he has earned in his last one year. Vaibhav found that all of his friends were facing the same difficulty in calculating the tax.

He felt the need of a program where he can enter all of his friend's name along with their income one by one and the program will calculate the tax and print the liable taxes of all of his friends.

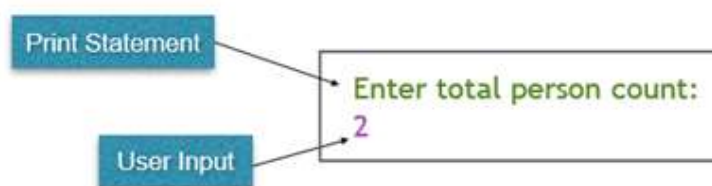
Let's help Vaibhav write the program for the same.

Approach: Follow the steps and complete the assignment

1. Within the static `main()` method, write the print statements to get the following output

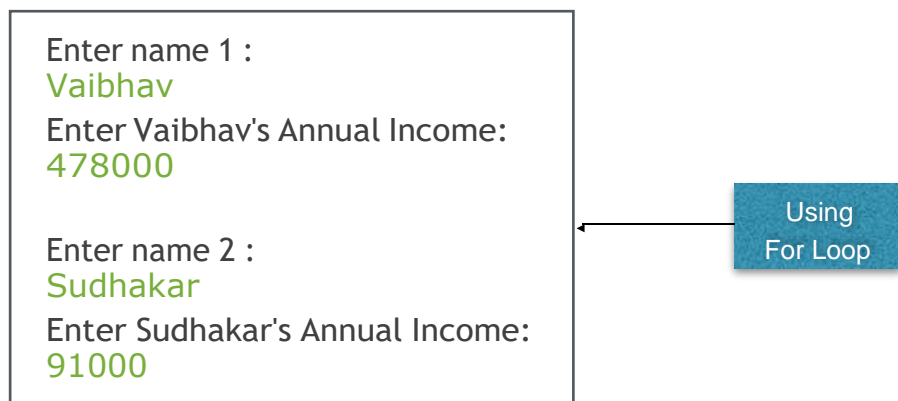


2. Write code for user input
 - Initialise class `Scanner`
 - Ask for total number of *person count* whose tax needs to be calculated and store it in `integer` variable. For example:



3. Once you get the total person count
 - Create an array of **String** to store names. The size of the array should be the *person count*.
 - Create an array of **long** to store incomes. The size of the array should be the *person count*.

4. Next, let's write code to get all the person names along with their income. So we need to use a **for loop** that will ask the user to enter name and income one by one in each iteration.
 - When the user enters name, store it in **String array of names**.
 - Similarly, store incomes in the **long array of incomes**.
 - The output should look like this:



5. Once you have got all user inputs and stored it in the respective arrays, it's time to create a static method named **calculateTax()** that accepts two parameters
 1. String name
 2. long income
6. Within **calculateTax()** method, write code using **IF-ELSE-IF** conditional statements to calculate the tax keeping in mind the following aspects
 1. If the income is greater than or equal to 3 lacs per annum then the person is liable to pay 20% of his income as tax
 2. If the income is greater than or equal to 1 lac per annum but smaller than 3 lacs per annum then the person is liable to pay 10% of his income as tax
 3. If the income is smaller than 1 lac per annum then the person is exempted from paying tax
7. Within **calculateTax()** method, finally when the tax has been calculated, write a print statement to print the name of the person along with the liable tax in the following format:



8. At last, from the `main()` method define another `for loop` and call `calculateTax()` method for each of the person.

Hints:

- There are two `for loops` used in the program
 - First `for loop` will be used to take user input for each of the person
 - Second will be used to call `calculateTax()` method to calculate tax for each of the person.
- To draw dashed lines use hyphen in the print statement

FINAL OUTPUT

Tax Calculator App
----- WELCOME -----

Enter total person count:
3

Enter name 1 :
Vaibhav
Enter Vaibhav's Annual Income:
478000

Enter name 2 :
Sudhakar
Enter Sudhakar's Annual Income:
91000

Enter name 3 :
Anapurna
Enter Anapurna's Annual Income:
300000

Names with liable taxes

Vaibhav : ₹ 95600
Sudhakar : ₹ 0
Anapurna : ₹ 60000



OPTIONAL
Print Statements