

Institute of Computer Technology  
B. Tech Computer Science and Engineering  
Subject: OOP (2CSE303)

**PRACTICAL-16**

**AIM:** - Sheetal visits the income tax website to find the taxable income from her gross income where the module takes as input the employee's gross salary and your total saving and uses another function named taxCalculate() to calculate your tax. The taxCalculate() function takes as parameters the gross salary as well as the total savings amount. The tax is calculated as follows:

**(a) The savings is deducted from the gross income to calculate the taxable income. Maximum deduction of savings can be Rs. 1,00,000, even though the amount can be more than this.**

**(b) For up to 100,000 as taxable income the tax is 0 (Slab 0); beyond 100,000 to 200,000 tax is 10% of the difference above 100,000 (Slab 1); beyond 200,000 up to 500,000 the net tax is the tax calculated from Slab 0 and Slab 1 and then 20% of the taxable income exceeding 200,000 (Slab 2); if its more than 500,000, then the tax is tax from Slab 0, Slab 1, Slab 2 and 30% of the amount exceeding 500,000.**

**SOLUTION**

```
package practicals;
import java.util.*;
/**
 *
 * @author YashPrajapati
 */
public class p16
{
    void taxCalculate(double a,double b)
    {
        double income=0,tax=0,taxable_income=0;
        if(b>=100000)
        {
            income=a-100000;
        }
        else
        {
```

```
        income=a-b;
    }
    if(income>0 && income<=100000)
    {
        tax=(income*0)/100;
        taxable_income=income-tax;
        System.out.print("Income after deducting savings from Gross
salary: "+income);
        System.out.print("\nTax: "+tax);
        System.out.print("\nIncome after applying tax:
"+taxable_income);
    }
    else if(income>100000 && income<=200000)
    {
        tax=(income*10)/100;
        taxable_income=income-tax;
        System.out.print("Income after deducting savings from Gross
salary: "+income);
        System.out.print("\nTax: "+tax);
        System.out.print("\nIncome after applying tax:
"+taxable_income);
    }
    else if(income>200000 && income<=500000)
    {
        tax=(income*20)/100;
        taxable_income=income-tax;
        System.out.print("Income after deducting savings from Gross
salary: "+income);
        System.out.print("\nTax: "+tax);
        System.out.print("\nIncome after applying tax:
"+taxable_income);
    }
    else
    {
        tax=(income*30)/100;
        taxable_income=income-tax;
        System.out.print("\nIncome after deducting savings from
Gross salary: "+income);
```

```

        System.out.print("\nTax: "+tax);
        System.out.print("\nIncome after applying tax:
        "+taxable_income+"\n");
    }
}
public static void main(String[] args)
{
    double gross_salary,saving;Scanner yash=new Scanner(System.in);
    System.out.print("Enter Gross Salary: ");
    gross_salary=yash.nextDouble();
    System.out.print("Enter Savings: ");
    saving=yash.nextDouble();
    if(gross_salary>saving && gross_salary>0)
    {
        p16 obj = new p16();
        obj.taxCalculate(gross_salary,saving);
    }
}
}

```

## OUTPUT

```

Output
Practicals (debug) x Debugger Console x
debug:
Enter Gross Salary: 200000
Enter Savings: 100000
Income after deducting savings from Gross salary: 100000.0
Tax: 0.0
Income after applying tax: 100000.0BUILD SUCCESSFUL (total time: 6 seconds)

Output
Debugger Console x Practical (run) x
run:
Enter Gross Salary: 100000
Enter Savings: 13999
Income after deducting savings from Gross salary: 86001.0
Tax: 0.0
Income after applying tax: 86001.0BUILD SUCCESSFUL (total time: 9 seconds)

```

Output

Debugger Console × Practicals (run) ×

run:  
Enter Gross Salary: 300000  
Enter Savings: 149998  
Income after deducting savings from Gross salary: 200000.0  
Tax: 20000.0  
Income after applying tax: 180000.0BUILD SUCCESSFUL (total time: 10 seconds)

Output

Debugger Console × Practicals (run) ×

run:  
Enter Gross Salary: 510000  
Enter Savings: 261000  
Income after deducting savings from Gross salary: 410000.0  
Tax: 82000.0  
Income after applying tax: 328000.0BUILD SUCCESSFUL (total time: 15 seconds)

Output

Debugger Console × Practicals (run) ×

run:  
Enter Gross Salary: 995600  
Enter Savings: 450000  
  
Income after deducting savings from Gross salary: 895600.0  
Tax: 268680.0  
Income after applying tax: 626920.0  
BUILD SUCCESSFUL (total time: 19 seconds)