

# Practical - 6

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Section C

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Practical No 6: Consider a class Employee with data members as employee id and employee name. Create an interface taxable which has method calculateTax(). Derive a class permanent from class employee and interface taxable. Data member for permanent is Salary, include function AdditionalEarning which stores information if there is additional earning. Calculate tax for the permanent employee. If salary for an employee is between 1 lakh to 5 lakh tax is 10%. If salary is more than 5 lakh tax is 20%. Add a function to display the salary and tax. Derive a class HourlyEmployee from Employee. Data members are HoursWorked, RatePerHour. Include methods to calculate salary and display it. Write proper constructors and display methods for all the classes. Write a main() to demonstrate use of all the classes.

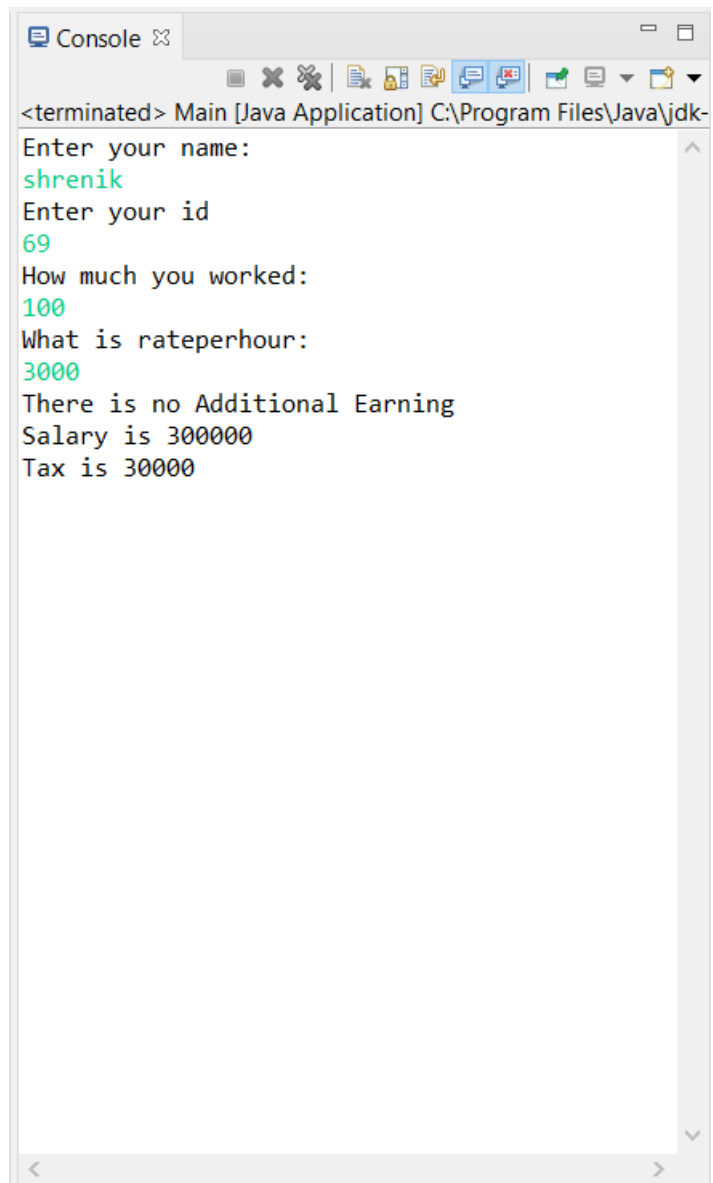
```
import java.util.Scanner;

class Employee
{
    int id, salary;
    String name;
    Employee(String name, int id, int salary)
    {
        this.id=id;
        this.name=name;
        this.salary=salary;
    }
}
interface taxable
{
    void calculateTax();
}
class permanent extends Employee implements taxable
{
    int tax;
    permanent(String name, int id, int salary)
    {
        super(name, id, salary);
    }
    public void calculateTax()
    {
        if(salary>=100000 && salary<=500000)
        {
            tax=(int) (salary*0.1);
        }
        else if(salary>500000)
```

```

        {
            tax=(int) (salary*0.2);
        }
        else
        {
            System.out.println("Invalid");
        }
    }
    void AdditionalEarning()
    {
        System.out.println("There is no Additional Earning");
    }
    void Display()
    {
        System.out.println("Salary is "+salary+"\nTax is "+tax);
    }
}
class HourlyEmployee extends Employee
{
    int HoursWorked, RatePerHour;
    HourlyEmployee(String name, int id, int salary, int HoursWorked, int
RatePerHour)
    {
        super(name, id, salary);
        this.HoursWorked=HoursWorked;
        this.RatePerHour=RatePerHour;
    }
    public int Salary(int HoursWorked, int RatePerHour)
    {
        return HoursWorked*RatePerHour;
    }
}
public class Main
{
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter your name:");
        String name = s.nextLine();
        System.out.println("Enter your id");
        int id = s.nextInt();
        System.out.println("How much you worked:");
        int HoursWorked = s.nextInt();
        System.out.println("What is rateperhour:");
        int RatePerHour = s.nextInt();
        int StoreSalary = 0;
        HourlyEmployee he = new
HourlyEmployee(name,id,StoreSalary,HoursWorked,RatePerHour);
        StoreSalary = he.Salary(HoursWorked,RatePerHour);
        permanent p = new permanent(name,id,StoreSalary);
        p.calculateTax();
        p.AdditionalEarning();
        p.Display();
    }
}

```



```
<terminated> Main [Java Application] C:\Program Files\Java\jdk-  
Enter your name:  
shrenik  
Enter your id  
69  
How much you worked:  
100  
What is rateperhour:  
3000  
There is no Additional Earning  
Salary is 300000  
Tax is 30000
```