

Program1

```
package abstraction;

public abstract class Employee {

    public abstract double calculateSalary(double paymentperhr, int workingHr);

}
```

```
package abstraction;

public class Contractor extends Employee{

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Contractor ct = new Contractor();
        System.out.println("Working hours per day: 5");
        double salary = ct.calculateSalary(250.5d, 5);

        System.out.println("Number of working days in the month: 25");
        int totalworkingdays =25;
        double salarypermonth =totalworkingdays*salary;
        System.out.println("Salary Per Month based on
contract:"+salarypermonth);

    }

    @Override
    public double calculateSalary(double paymentperhr, int workingHr) {
        // TODO Auto-generated method stub

        double salPerDay = paymentperhr*workingHr;

        return salPerDay;
    }

}
```

//output

```
Working hours per day: 5
Number of working days in the month: 25
Salary Per Month based on contract:31312.5
```

```
package abstraction;

import java.util.*;

public class FullTimeEmployee extends Employee{
```

```

public static void main(String[] args) {
    // TODO Auto-generated method stub
    FullTimeEmployee fte = new FullTimeEmployee();
    double salary = fte.calculateSalary(280.5d, 8);
    System.out.println("Salary Per Month:"+salary);
}

@Override
public double calculateSalary(double paymentperhr, int workingHr) {

    double salPerDay = paymentperhr*workingHr;
    System.out.println("Salary Per Day:"+salPerDay);
    Calendar cal = Calendar.getInstance();
    int num_days = cal.getActualMaximum(Calendar.DAY_OF_MONTH);
    System.out.println("No of days in current month: " + num_days);
    double salPerMonth = salPerDay*num_days;

    return salPerMonth;
}
}

```

//output

```

Salary Per Day:2244.0
No of days in current month: 31
Salary Per Month:69564.0

```