

## LAB PROGRAM

```
import java.io.*;
import java.lang.*;
import java.util.*;
public class book3
{
    public String name;
    public String author;
    public double price;
    public int no_of_pages;
    public book3(String n,String a,double pri,int pages)
    {
        name=n;
        author=a;
        price=pri;
        no_of_pages=pages;
    }
    @Override
    public String toString()
    {
        return "Name of the book is: " + name + " Author Of The Book Is: " + author +" Cost of the book
is: " + price + " Number Of Pages in the book is " + no_of_pages;
    }
}
```

```
import java.io.*;
import java.util.*;
import java.lang.*;
public class testbook3
{
```

```

public static String name;

public static String author;

public static double price;

public static int no_of_page;

public static void main(String[] args)
{
    Scanner sc=new Scanner(System.in);

    int n;

    System.out.println("Enter the number of books");

    n=sc.nextInt();

    book3[] ob=new book3[n];

    for(int i=0;i<n;i++)
    {
        System.out.println("Enter the name of the book " + (i+1));

        name=sc.next();

        System.out.println("Enter the author of the book " + (i+1));

        author=sc.next();

        System.out.println("Enter the price of the book " + (i+1));

        price=sc.nextDouble();

        System.out.println("Enter the number of pages of book " + (i+1));

        no_of_page=sc.nextInt();

        ob[i]= new book3(name,author,price,no_of_page);

        //ob[i]=new lab_program3(name,author,price,)
    }

    for(int i=0;i<n;i++)
    {
        System.out.println("Displaying the details of the book " + (i+1));

        //System.out.println();

        System.out.println(ob[i]);

    }
}

```

}

## OUTPUT

```
Command Prompt
C:\Users\Shreehari Kulkarni\Desktop>javc testbook3.java
'javc' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Shreehari Kulkarni\Desktop>javac testbook3.java

C:\Users\Shreehari Kulkarni\Desktop>java testbook3
Enter the number of books
2
Enter the name of the book 1
h
Enter the author of the book 1
r
Enter the price of the book 1
500
Enter the number of pages of book 1
400
Enter the name of the book 2
t
Enter the author of the book 2
t
Enter the price of the book 2
410
Enter the number of pages of book 2
500
Displaying the details of the book 1
Name of the book is: h Author Of The Book Is: r Cost of the book is: 500.0 Number Of Pages In the book is 400
Displaying the details of the book 2
Name of the book is: t Author Of The Book Is: t Cost of the book is: 410.0 Number Of Pages in the book is 500
```

## EXTRA PROGRAM1:

```
import java.io.*;

import java.lang.*;

import java.util.*;

public class extra7

{

    public static String empid;

    public static String empname;

    public static double emphrs;

    public static double empbas;

    public static double emphra;

    public static double empda;

    public static double empit;

    public static double empgross;

    public static void read()
```

```

{
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter the id of the employee");
    empid=sc.next();
    System.out.println("Enter the name of the employee");
    empname=sc.next();
    System.out.println("Enter the number of hours an employee works in minutes");
    emphrs=sc.nextDouble();
    System.out.println("Enter the basic salary of the employee");
    empbas=sc.nextDouble();
    System.out.println("Enter the hra of the employee in percent");
    emphra=sc.nextDouble();
    System.out.println("Enter the da of the employee in percent");
    empda=sc.nextDouble();
    System.out.println("Enter the it of the employee");
    empit=sc.nextDouble();
}

public static double calc()
{
    read();
    double time=0;
    double i_d=0;
    empgross=empbas+(empbas*emphra)/(100);
    if(emphrs>200)
    {
        time=emphrs-200;
        time=time/60;
        System.out.println("Employee is eligible for Additional Payment");
        i_d=time*100;
        System.out.println("ADDITIONAL SALARY IS: " + i_d);
        empgross=empgross+i_d;
    }
}

```

```

    }
    else
    {
        time=200-emphrs;
        time=time/60;
        System.out.println("Your Salary Will Be Cut If You Don't Perform Atleast 200 Minutes of
work");
        i_d=time*100;
        System.out.println("DECREASED SALARY IS: " + i_d);
        empgross=empgross-i_d;
    }
    return empgross;
}

public static void main(String[] args)
{
    double salary=calc();
    System.out.println("Name of the employee is " + empname);
    System.out.println("Id of the employee is " + empid);
    System.out.println("Basic Salary of the employee is " + empbas);
    System.out.println("Final Salary of the employee is " + salary);
}
}

```

OUTPUT

IS SHARED IN THE NEXT PAGE:

```
Microsoft Windows [Version 10.0.19041.572]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\Shreehari Kulkarni>set path="C:\Program Files\Java\jdk-14.0.2\bin"
C:\Users\Shreehari Kulkarni>cd desktop
C:\Users\Shreehari Kulkarni\Desktop>cd JAVALABPROGRAMS
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>javac extra7.java
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>java extra7
Enter the id of the employee
18M19CS153
Enter the name of the employee
HARI
Enter the number of hours an employee works in minutes
108
Enter the basic salary of the employee
40000
Enter the hra of the employee in percent
5
Enter the da of the employee in percent
5
Enter the it of the employee
7
Employee is eligible for Additional Payment
ADDITIONAL SALARY IS: 33.333333333333
Name of the employee is HARI
Id of the employee is 18M19CS153
Basic Salary of the employee is 40000.0
Final Salary of the employee is 42333.33333333336
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>javac extra7.java
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>java extra7
Enter the id of the employee
18M19CS153
Enter the name of the employee
KULKARNI
Enter the number of hours an employee works in minutes
108
Enter the basic salary of the employee
40000
Enter the hra of the employee in percent
5
Enter the da of the employee in percent
4
Enter the it of the employee
6
Your Salary Will Be Cut If You Don't Perform Atleast 200 Minutes of work
DECREASED SALARY IS: 33.333333333333
Name of the employee is KULKARNI
Id of the employee is 18M19CS153
Basic Salary of the employee is 40000.0
Final Salary of the employee is 41966.66666666664
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>
```

## EXTRA 2:

```
import java.util.*;

import java.io.*;

import java.lang.*;

public class extra2

{

    public int years;

    public int months;

    public String name;

}

class age

{

    public static void main(String[] args)

    {

        Scanner sc=new Scanner(System.in);

        extra2[] ob=new extra2[2];
```

```

ob[0]=new extra8();
ob[1]=new extra8();
for(int i=0;i<2;i++)
{
    System.out.println("Enter the name of the perosn " + (i+1));
    ob[i].name=sc.next();
    System.out.println("Enter the number of years a person is old " + (i+1));
    ob[i].years=sc.nextInt();
    ob[i].years=ob[i].years*12;
    System.out.println("Enter the Number of months " + (i+1));
    ob[i].months=sc.nextInt();
}
double sum1=ob[0].years+ob[0].months;
System.out.println("Total Age of the Person " + " 1 " + " in Months is " + sum1);
System.out.println();
double sum2=ob[1].years+ob[1].months;
System.out.println("Total Age of the person 2 " + " in months is " + sum2);
System.out.println();
System.out.println("Displaying the details of the person with greater age ");
System.out.println();
if(sum1>sum2)
{
    display(ob[0]);
}
else
{
    display(ob[1]);
}
}

```

```

public static void display(extra8 ob)

```

```

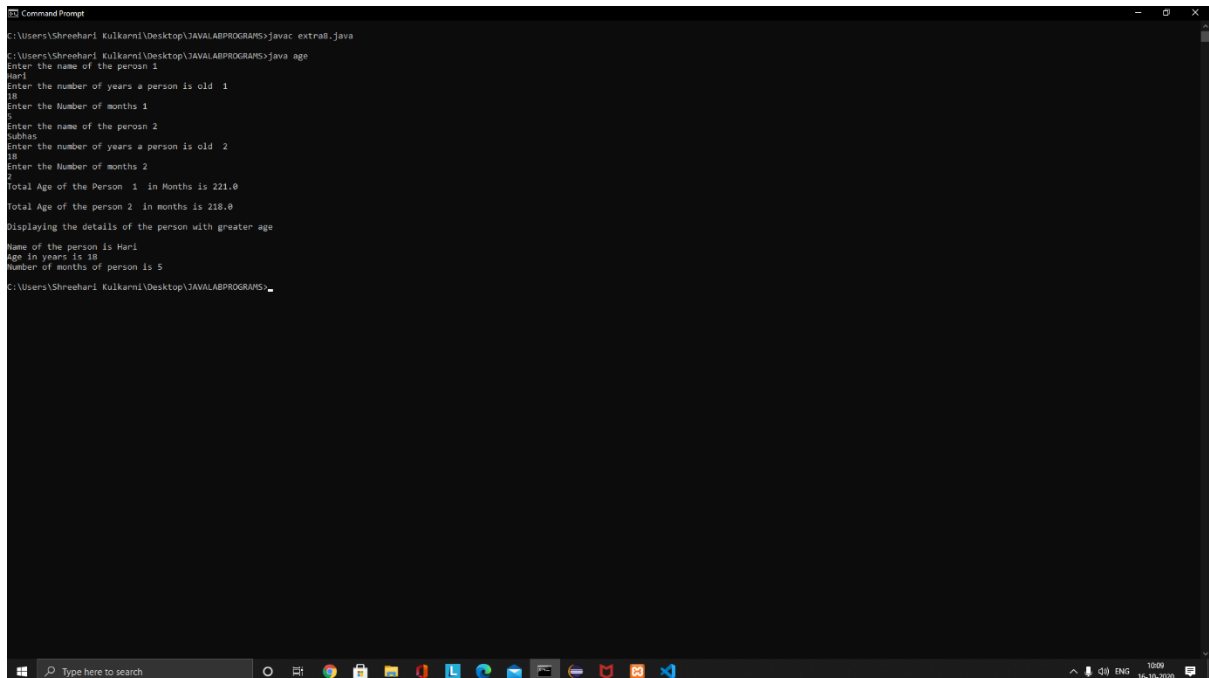
{
    System.out.println("Name of the person is " + ob.name);

    System.out.println("Age in years is " + ob.years/12);

    System.out.println("Number of months of person is " + ob.months);
}
}

```

OUTPUT:



```

C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>javac extra8.java
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>java age
Enter the name of the person 1
Hari
Enter the number of years a person is old 1
18
Enter the Number of months 1
5
Enter the name of the person 2
Sudhas
Enter the number of years a person is old 2
18
Enter the Number of months 2
5
Total Age of the Person 1 in Months is 221.0
Total Age of the person 2 in months is 218.0
Displaying the details of the person with greater age
Name of the person is Hari
Age in years is 18
Number of months of person is 5
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>

```