

Extra Program :

PROGRAM1:-

```
import java.util.Scanner;
```

```
class age{
```

```
    int P_year , P_month;
```

```
    Scanner C_inp = new Scanner(System.in);
```

```
    void GetData(){
```

```
        System.out.println("Enter Persons Birth Year(YYYY) :");
```

```
        P_year = C_inp.nextInt();
```

```
        System.out.println("Enter birth month(MM) : ");
```

```
        P_month = C_inp.nextInt();
```

```
    }
```

```
}
```

```
class Agedetails {
```

```
    public static void main(String[] args) {
```

```
        Scanner M_inp = new Scanner(System.in);
```

```
        age P1 = new age();
```

```
        age P2 = new age();
```

```
        System.out.println("Enter Person 1's Name : ");
```

```
        String P1Name = M_inp.nextLine();
```

```
        System.out.println("enter Birth details of " + P1Name);
```

```

P1.GetData();

System.out.println("Enter Person 2's Name : ");

String P2Name = M_inp.nextLine();

System.out.println("enter Birth details of " + P2Name);

P2.GetData();


if (P1.P_year<P2.P_year) {

    System.out.println(P1Name+" is elder than "+P2Name);

} else if(P1.P_year>P2.P_year) {

    System.out.println(P2Name+" is elder than "+P1Name);

}

else if (P1.P_year==P2.P_year){

    if(P1.P_month<P2.P_month){

        System.out.println(P1Name+" is elder than "+P2Name);

    }

    else if(P1.P_month>P2.P_month){

        System.out.println(P2Name+" is elder than "+P1Name);

    }

    else if(P1.P_month==P2.P_month){

        System.out.println("Both " + P1Name+ " and "+ P2Name+ " are of Same age ");

    }

}

}

}

}

```

SCREENSHOTS:-

```
Agedetails - Notepad
File Edit Format View Help
import java.util.Scanner;

class age{
    int P_year , P_month;

    Scanner C_inp = new Scanner(System.in);

    void GetData(){
        System.out.println("Enter Persons Birth Year(YYYY) :");
        P_year = C_inp.nextInt();
        System.out.println("Enter birth month(MM) : ");
        P_month = C_inp.nextInt();
    }
}

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

        age P1 = new age();
        age P2 = new age();

        System.out.println("Enter Person 1's Name : ");
        String P1Name = M_inp.nextLine();
        System.out.println("enter Birth details of " + P1Name);
        P1.GetData();

        System.out.println("Enter Person 2's Name : ");
        String P2Name = M_inp.nextLine();
```

```
Agedetails - Notepad
File Edit Format View Help
        String P1Name = M_inp.nextLine();
        System.out.println("enter Birth details of " + P1Name);
        P1.GetData();

        System.out.println("Enter Person 2's Name : ");
        String P2Name = M_inp.nextLine();
        System.out.println("enter Birth details of " + P2Name);
        P2.GetData();

        if (P1.P_year<P2.P_year) {
            System.out.println(P1Name+" is elder than "+P2Name);
        } else if(P1.P_year>P2.P_year) {
            System.out.println(P2Name+" is elder than "+P1Name);
        }
        else if (P1.P_year==P2.P_year){
            if(P1.P_month<P2.P_month){
                System.out.println(P1Name+" is elder than "+P2Name);
            }
            else if(P1.P_month>P2.P_month){
                System.out.println(P2Name+" is elder than "+P1Name);
            }
            else if(P1.P_month==P2.P_month){
                System.out.println("Both " + P1Name+ " and " + P2Name+ " are of Same age ");
            }
        }
    }
}
```

PROGRAM2:-

```
import java.util.*;

class Employee{

String empid,empname;

int empnohrs;

double empbasic,emphra,empda,empit,empgross;


void accept()

{

Scanner in=new Scanner(System.in);

System.out.println("Enter the details of Employee");

System.out.println("Enter Employee id");

empid=in.nextLine();

System.out.println("Enter Employee Name");

empname=in.nextLine();

System.out.println("Enter no of hours");

empnohrs=in.nextInt();

System.out.println("Enter Basic_salary HRA(%) Da(%) and IT(%)");

empbasic=in.nextDouble();

emphra=in.nextDouble();

empda=in.nextDouble();

empit=in.nextDouble();

}


void calculate()

{

empgross=empbasic+(empbasic*emphra)+(empbasic*empda)-(empbasic*empit);

System.out.println("Employee gross :-"+empgross);
```

```
}
```

```
void update()
```

```
{
```

```
if(empnohrs>200)
```

```
{
```

```
empgross+=((empnohrs-200)*100);
```

```
System.out.println("Employee gross after adding overtime charges:-"+empgross);
```

```
}
```

```
else if(empnohrs<200)
```

```
{
```

```
empgross=empgross-((200-empnohrs)*100);
```

```
System.out.println("Employee gross after deducting undertime charges:-"+empgross);
```

```
}
```

```
else
```

```
{
```

```
System.out.println("No change in the gross salary hence the salary is :-"+empgross);
```

```
}
```

```
}
```

```
public static void main(String[] args){
```

```
Employee employee1=new Employee();
```

```
employee1.accept();
```

```
employee1.calculate();
```

```
employee1.update();
```

```
}
```

```
}
```

SCREENSHOTS:-

The screenshot shows a Notepad window with the following Java code:

```
Employee - Notepad
File Edit Format View Help
import java.util.*;
class Employee{
String empid,empname;
int empnohrs;
double empbasic,empfra,empda,empit,empgross;

void accept()
{
Scanner in=new Scanner(System.in);
System.out.println("Enter the details of Employee");
System.out.println("Enter Employee id");
empid=in.nextLine();
System.out.println("Enter Employee Name");
empname=in.nextLine();
System.out.println("Enter no of hours");
empnohrs=in.nextInt();
System.out.println("Enter Basic_salary HRA(%) Da(%) and IT(%)");
empbasic=in.nextDouble();
empfra=in.nextDouble();
empda=in.nextDouble();
empit=in.nextDouble();
}

void calculate()
{
empgross=empbasic+(empbasic*empfra)+(empbasic*empda)-(empbasic*empit);
System.out.println("Employee gross :-"+empgross);
}

void update()
{
if(empnohrs>200)
{
empgross+=((empnohrs-200)*100);
System.out.println("Employee gross after adding overtime charges :-"+empgross);
}
```

The Command Prompt window shows the execution of the program:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18363.418]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\java>javac Employee.java

C:\java>java Employee
Enter the details of Employee
Enter Employee id
1bm19cs121
Enter Employee Name
Prema Singanal
Enter no of hours
210
Enter Basic_salary HRA(%) Da(%) and IT(%)
12000
0.2
0.5
0.2
Employee gross :-18000.0
Employee gross after adding overtime charges:-19000.0

C:\java>
```

The screenshot shows the continuation of the Java code in Notepad:

```
Employee - Notepad
File Edit Format View Help
}

void calculate()
{
empgross=empbasic+(empbasic*empfra)+(empbasic*empda)-(empbasic*empit);
System.out.println("Employee gross :-"+empgross);
}

void update()
{
if(empnohrs>200)
{
empgross+=((empnohrs-200)*100);
System.out.println("Employee gross after adding overtime charges:-"+empgross);
}
else if(empnohrs<200)
{
empgross=empgross-((200-empnohrs)*100);
System.out.println("Employee gross after deducting undertime charges:-"+empgross);
}
else
{
System.out.println("No change in the gross salary hence the salary is :-"+empgross);
}
}

public static void main(String[] args){
Employee employee1=new Employee();
employee1.accept();
employee1.calculate();
employee1.update();
}
}
```

The Command Prompt window shows the execution of the program for a second example:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18363.418]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\java>javac Employee.java

C:\java>java Employee
Enter the details of Employee
Enter Employee id
1bm19cs121
Enter Employee Name
chinmayee
Enter no of hours
190
Enter Basic_salary HRA(%) Da(%) and IT(%)
12000
0.9
0.6
0.8
Employee gross :-20400.0
Employee gross after deducting undertime charges:-19400.0

C:\java>
```

