

```
1  import java.util.Scanner;
2  class Employee
3  {
4      Employee()
5      {
6          empgross=0.0;
7      }
8      int eid;
9      String ename;
10     int hrs;
11     double ebasic;
12     double emphra;
13     double empda;
14     double empit;
15     double empgross;
16     void get()
17     {
18         Scanner s=new Scanner(System.in);
19         System.out.println("ENTER THE ID OF EMPLOYEE");
20         eid=s.nextInt();
21         System.out.println("ENTER NAME OF EMPLOYEE");
22         ename=s.next();
23         System.out.println("ENTER THE NUMBER OF HOURS WORKED");
24         hrs=s.nextInt();
25         System.out.println("ENTER BASIC AMT OF EMPLOYEE");
26         ebasic=s.nextDouble();
27         System.out.println("ENTER THE PERCENTAGE OF HRA");
28         emphra=s.nextDouble();
29         System.out.println("ENTER THE PERCENTAGE OF DA");
30         empda=s.nextDouble();
31         System.out.println("ENTER THE PERCENTAGE OF IT");
32         empgross=s.nextDouble();
33     }
34     double calculategross()
35     {
36         empgross=ebasic+ebasic*(emphra/100)+ebasic*(empda/100)-ebasic*(empit/100);
37         return empgross;
38     }
39 }
```

```

39     double finalgross()
40     {
41         if(hrs>200)
42             empgross=empgross+100*(hrs-200);
43         else
44             empgross=empgross-100*(200-hrs);
45         return empgross;
46     }
47 }
48 class employemain
49 {
50     Run | Debug
51     public static void main(String args[])
52     {
53         Scanner ss=new Scanner(System.in);
54         System.out.println("ENTER THE NUMBER OF EMPLOYEES");
55         int n=ss.nextInt();
56         Employee emp[]=new Employee[n];
57         for(int i=0;i<n;i++)
58         {
59             System.out.println("ENTER THE DETAILS OF EMPLOYEE"+(i+1));
60             emp[i]=new Employee();
61             emp[i].get();
62         }
63         for(int i=0;i<n;i++)
64         {
65             System.out.println("THE INITIAL GROSS SALARY OF EMPLOYEE="+emp[i].calculatedgross());
66             System.out.println("THE FINAL GROSS SALARY OF EMPLOYEE="+emp[i].finalgross());
67         }
68     }

```

The screenshot displays the Visual Studio Code interface with a Java project. The Explorer sidebar on the left shows a file tree under the 'JV' folder, containing numerous Java files such as AgeMain.java, Array.class, Array.java, Array2.class, Array2.java, Array3.class, Array3.java, Asg1_10.class, Asg1_10.java, Bill.java, Book.java, Bookin.class, Bookmain.class, Dimension.class, Dimension.java, Employee.class, employeeemain.class, employeeemain.java (selected), Lab2.class, Lab2.java, Lab3.class, Lab3.java, Lab31.class, Lab31.java, Main.class, Main.java, Quadratic.class, Quadratic.java, and Student.class. The main editor area shows the 'TERMINAL' tab with a Windows PowerShell session. The terminal output includes the command prompt, the execution of 'javac employeeemain.java' and 'java employeeemain', and a series of prompts for employee details (number of employees, name, hours worked, basic amount, HRA percentage, DA percentage, IT percentage) and gross salary calculations. The status bar at the bottom indicates the current file is 'employeeemain.java' at line 14, column 18, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray at the bottom right shows the date and time as 13-10-2020, 19:17.

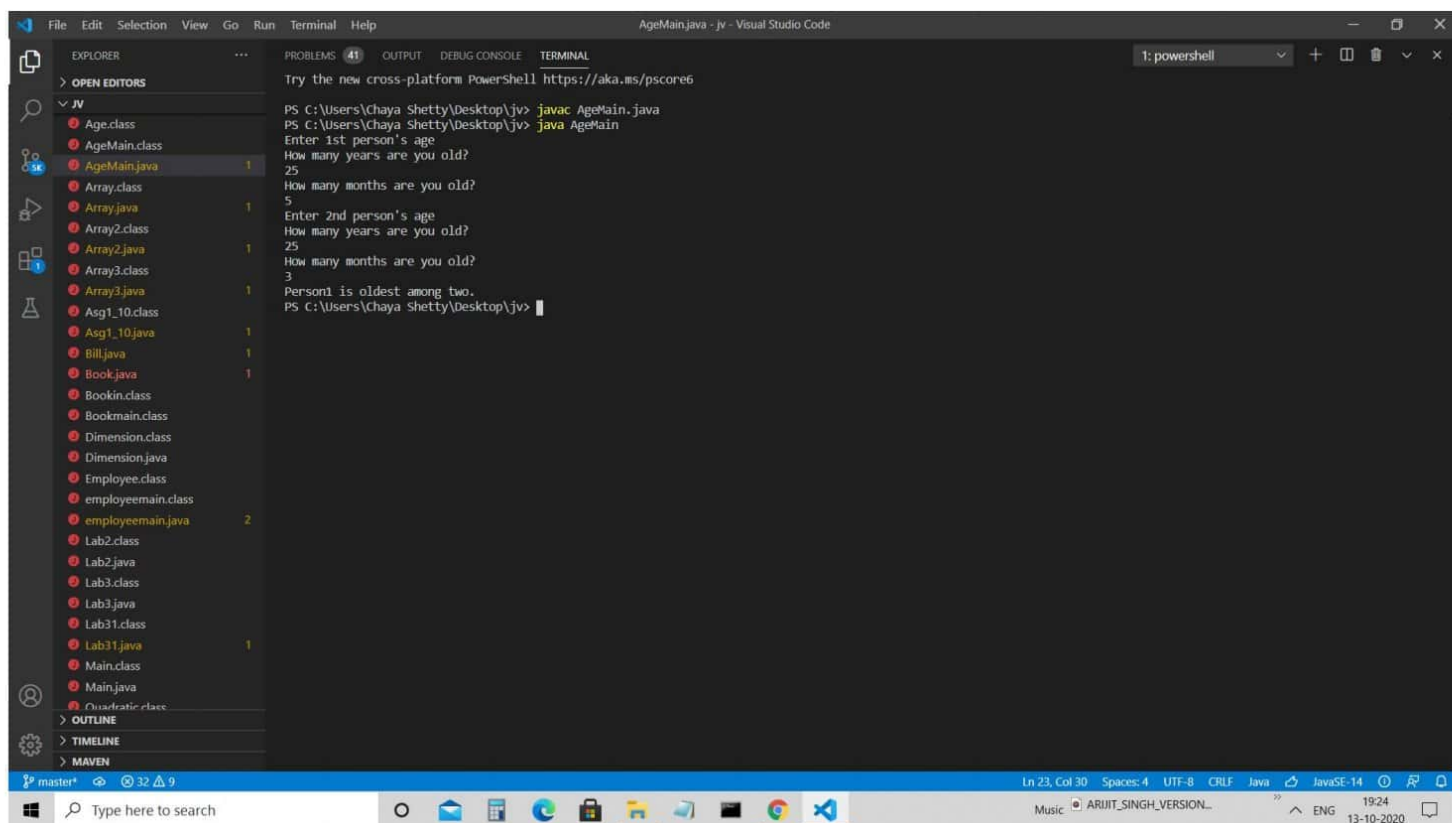
```
Windows PowerShell
Copyright (c) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Chaya Shetty\Desktop\jv> javac employeeemain.java
PS C:\Users\Chaya Shetty\Desktop\jv> java employeeemain
ENTER THE NUMBER OF EMPLOYEES
2
ENTER THE DETAILS OF EMPLOYEE1
ENTER THE ID OF EMPLOYEE
1
ENTER NAME OF EMPLOYEE
Milan
ENTER THE NUMBER OF HOURS WORKED
201
ENTER BASIC AMT OF EMPLOYEE
20000
ENTER THE PERCENTAGE OF HRA
8
ENTER THE PERCENTAGE OF DA
3
ENTER THE PERCENTAGE OF IT
4
ENTER THE DETAILS OF EMPLOYEE2
ENTER THE ID OF EMPLOYEE
2
ENTER NAME OF EMPLOYEE
Nakul
ENTER THE NUMBER OF HOURS WORKED
100
ENTER BASIC AMT OF EMPLOYEE
25000
ENTER THE PERCENTAGE OF HRA
6
ENTER THE PERCENTAGE OF DA
2
ENTER THE PERCENTAGE OF IT
3
THE INITIAL GROSS SALARY OF EMPLOYEE=22200.0
THE FINAL GROSS SALARY OF EMPLOYEE=22300.0
THE INITIAL GROSS SALARY OF EMPLOYEE=27000.0
THE FINAL GROSS SALARY OF EMPLOYEE=26900.0
PS C:\Users\Chaya Shetty\Desktop\jv>
```

```
AgeMain.java > Age > older(Age)
1  import java.util.Scanner;
2
3  class Age{
4      private int years;
5      private int months;
6      private double age;
7
8      void getDetails(){
9          Scanner sc = new Scanner(System.in);
10         System.out.println("How many years are you old?");
11         years = sc.nextInt();
12         System.out.println("How many months are you old?");
13         months = sc.nextInt();
14     }
15
16     String older(Age a){
17         this.age = this.years + (this.months / 12.0);
18         a.age = a.years + (a.months / 12.0);
19         if(this.age > a.age){
20             return "Person1";
21         }
22         else if(a.age > this.age){
23             return "Person2";
24         }
25         return "0";
26     }
27 }
```

```
29 public class AgeMain {  
    Run | Debug  
30     public static void main(String[] args) {  
31         Age a1 = new Age();  
32         Age a2 = new Age();  
33         System.out.println("Enter 1st person's age");  
34         a1.getDetails();  
35         System.out.println("Enter 2nd person's age");  
36         a2.getDetails();  
37         String eq = a1.older(a2);  
38         if(eq == "0"){  
39             System.out.println("They're both of same age");  
40         }  
41         else{  
42             System.out.println(eq + " is oldest among two.");  
43         }  
44     }  
45 }  
46 }
```



Practice program

```
import java.util. Scanner;

class Employee {
    Employee() {
        empgross = 0.0;
    }
    int eid;
    String name;
    int hrs;
    double ebasic;
    double emphra;
    double empda;
    double empit;
    double empgross;
    void get() {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter details");
        eid = s.nextInt();
        ename = s.next();
        hrs hrs = s.nextInt();
        ebasic = s.nextDouble();
        emphra = s.nextDouble();
        empda = s.nextDouble();
        empgross = s.nextDouble();
    }
    double calculate gross() {
        empgross = ebasic + ebasic * (emphra/100) + ebasic * (empda/100)
        - ebasic * (empit/100);
        return empgross;
    }
}
```



```

double empgross() {
    if (hrs > 200)
        empgross = empgross + 100 * (hrs - 200);
    else
        empgross = empgross - 100 * (200 - hrs);
    return empgross;
}

```

```

class employeeMain {
    public static void main (String args[])
    {
        Scanner ss = new Scanner (System.in);
        System.out.println ("Enter no. of employees");
        int n = ss.nextInt();
        Employee emp[] = new Employee[n];
        for (i=0; i < n; i++)
        {
            System.out.println ("Enter details of employee " + (i+1));
            emp[i] = new Employee();
            emp[i].get();
        }
        for (i=0; i < n; i++)
        {
            System.out.println ("The initial gross salary of employee " +
                                emp[i].calculategross());
            System.out.println ("The final gross salary of employee " +
                                emp[i].finalgross());
        }
    }
}

```



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

```
class Age {
```

```
    private int years;
```

```
    private int months;
```

```
    private double age;
```

```
    void getDetails() {
```

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

```
        System.out.println("How many years old are you?");
```

```
        years = sc.nextInt();
```

```
        System.out.println("How many months old are you?");
```

```
        months = sc.nextInt();
```

```
    }
```

```
    String older (Age a) {
```

```
        this.age = this.years + (this.months/12.0);
```

```
        a.age = a.years + (a.months/12.0);
```

```
        if (this.age > a.age)
```

```
        { return "Person 1";
```

```
        } else if (a.age > this.age)
```

```
        { return "Person 2";
```

```
        }
```

```
        return "0";
```

```
    }
```

```
}
```

```
public class AgeMain {
```

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

```
Age a1 = new Age();
```

```
Age a2 = new Age();
```

```
System.out.println("Enter 1st person's age");
```

```
a1.getDetails();
```

```
System.out.println("Enter 2nd person's age");
```

```
a2.getDetails();
```

```
String eq = a1.older(a2);
```

```
if (eq == "0") {
```

```
    System.out.println("They're both of same age");
```

```
}
```

```
else {
```

```
    System.out.println(eq + " is oldest among two.");
```

```
}
```

```
}
```

```
}
```