


Project Salary Employees





This Java program called salary to calculate how much to pay their hourly employees. The Department requires that employees get paid time and a half for any hours over 40 that they work in a single week. An employee gets paid to each hour work in week impending on base pay and if hour is over 40 we gave overtime 1.5 to each hour is over . And we check input which user is enter if the input is correct or no we not accept input if it can string or other thing not number .

An employee gets paid (hours worked) \times (base pay), for each hour up to 40 hours.

- For every hour over 40, they get overtime = (base pay) \times 1.5.
- The base pay must not be less than the minimum wage (\$8.00 an hour). If it is, print an error.
- If the number of hours is greater than 60, print an error message
- If user enter not number we print error please a gain enter number

Variable



```
1 static final double minimumWage = 8.0
//this base pay

2 static final int maxHours = 60 //this
maximum hour work employees

3 static double basePay=0 ;// this pay base
to each hour Enter from user

4 static int hoursWorked=0; //this number
hour in week Enter from user

5 double totalSalary //this total salary to
employees result
```

Method 1 `public static void salaryCalculation()`

this method is Calculation salary to each employee it has variable `totalSalary`

this method check the base pay if less than the minimum wage if yes print error

else we check the number of hours is greater than 40 yes we add to

salary base salary over time if not we Calculation salary number hour * base pay

and print salary to employee .

```
public static void salaryCalculation(){
    double totalSalary = 0;
    if ((basePay < minimumWage) || (hoursWorked > maxHours)){
        System.out.println("Error!");
    }
    else {
        if (hoursWorked > 40){
            totalSalary = basePay * 40 + 1.5*basePay*(hoursWorked - 40);
        }
        else {
            totalSalary = basePay * hoursWorked;
        }
        System.out.println("Your total salary is " + totalSalary+" $");
    }
}
```



2 public static void main (String[] args)

In main method we defining number
employee in department

```
public static void main (String[] args) {  
  
    Scanner input = new Scanner (System.in);  
  
    for (int i=1; i<=5; i++){  
        System.out.println("For Employee Number: " + i);  
        System.out.println(×: "Enter Base Pay:");  
        while(!input.hasNextInt()) //thid checked the input is correct  
        {  
            // exit from this loop if user enter number else not exit  
            String g=input.next();  
            System.out.println(×: "\\Error your enter please enter number ");  
        }  
  
        basePay =input.nextInt();//Enter vlaue pay for empoloy  
  
        System.out.println(×: "Enter Hours Worked:");  
        while(!input.hasNextInt())  
        {  
            String g=input.next();  
            System.out.println(×: "Error your enter please enter number ");  
        }  
        hoursWorked =input.nextInt();//Enter number hour work  
  
        salaryCalculation();  
    }  
}
```



Step run program :

Program will request from enter value to base pay •

user enter to base pay •

Program will ask user hour work to hourwork •

user enter hourwork •

programing call method give hourwork and basepay •

if basepay is less than 8.0 and hourwork is more than 60 print message error if not continues •

if hour work more than 40 calculated salary with add overtime work hour •

$\text{totalSalary} = \text{basePay} * 40 + 1.5 * \text{basePay} * (\text{hoursWorked} - 40)$ •

$\text{totalSalary} = \text{basePay} * \text{hoursWorked}$ •

the method receiver parameter and calculated and print salary •

- we increate the i by •

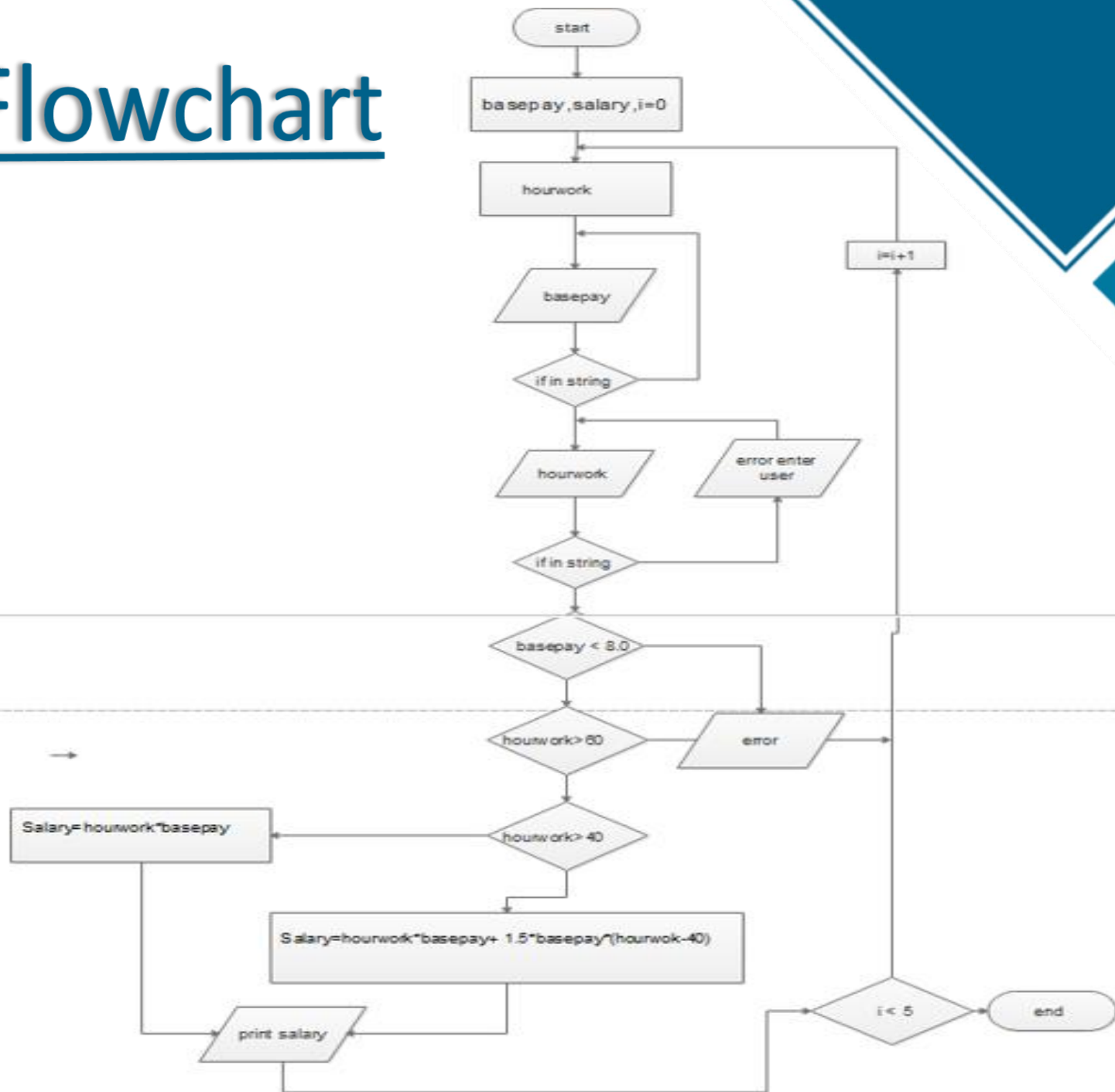
if i less than 5 continues else exit from program •

we go to step 1 •



```
run-single:
For Employee Number: 1
Enter Base Pay:
12
Enter Hours Worked:
50
Your total salary is 660.0 $
For Employee Number: 2
Enter Base Pay:
7
Enter Hours Worked:
34
Error!
For Employee Number: 3
Enter Base Pay:
23
Enter Hours Worked:
68
Error!
For Employee Number: 4
Enter Base Pay:
32
Enter Hours Worked:
45
Your total salary is 1520.0 $
For Employee Number: 5
Enter Base Pay:
8
Enter Hours Worked:
40
Your total salary is 320.0 $
BUILD SUCCESSFUL (total time: 1 minutes 10 seconds)
||
```

Flowchart




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

```
class salary{
```

```
static final double minimumWage = 8.0; // static means that can be accessed without  
creating an object of the class and instantiating it
```

```
static final int maxHours = 60; // final means constant = cannot be changed after declared
```

```
static double basePay=0; // initialize them to zero, at least you know your program won't  
throw null pointer exception if forgot to set their
```

```
static int hoursWorked=0; //values before invoking the method
```

```
public static void salaryCalculation(){
```

```
double totalSalary = 0;
```

```
if ((basePay < minimumWage) || (hoursWorked > maxHours)){
```

```
System.out.println("Error!");
```

```
{
```

```
else {
```

```
if (hoursWorked > 40){  
    totalSalary = basePay * 40 + 1.5*basePay*(hoursWorked - 40);  
    {  
    else {  
        totalSalary = basePay * hoursWorked;  
        {  
        System.out.println("Your total salary is " + totalSalary+" $");  
        {  
        {
```

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

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

```

for (int i=1; i<=5; i++){
System.out.println("For Employee Number: " + i);
System.out.println("Enter Base Pay:");
while(!input.hasNextInt()) //thid checked the input is correct
exit from this loop if user enter number  else not exit  //}
String c=input.next();
System.out.println("\nError your enter please enter number ");
{

basePay =input.nextInt();//Enter vlaue pay for empoloy

System.out.println("Enter Hours Worked:");
while(!input.hasNextInt())
}
String c=input.next();
System.out.println("Error your enter please enter number ");
{
hoursWorked =input.nextInt();//Enter number hour work

salaryCalculation();
{
{{

```