```
 1 /**
 2  * Name: Sunil Sunichura
 3  * Student Number: 991578383
 4  * Assignment 3
 5  * Date: November 23, 2019
 6  */
 7 package paytime;
 8
 9 import java.util.Scanner;
10 import java.text.DecimalFormat;
11
12 public class Main {
13
14     public static void main(String[] args) {
15
16         Scanner k = new Scanner(System.in);
17         DecimalFormat dollar = new DecimalFormat("$#,##0.00");
18         Employee one = new Employee();
19
20         System.out.print("Enter Y to process a worker or any other key to "
21                 + "end: ");
22         String keyword = k.nextLine();
23         int total = 0;
24
25         while ("Y".equals(keyword)) {
26             total++;
27             System.out.print("Enter employee number: ");
28             int empNum = k.nextInt();
29             while (!one.findEmpNum(empNum)) {
30                 System.out.print("Invalid, enter proper employee number: ");
31                 empNum = k.nextInt();
32             }
33
34             k.nextLine();
35
36             System.out.print("\tEnter first name: ");
37             String empFirst = k.nextLine();
38             System.out.print("\tEnter last name: ");
39             String empLast = k.nextLine();
40             System.out.print("\tEnter hours worked: ");
41             double hoursWorked = k.nextDouble();
42             while (hoursWorked < 0) {
43                 System.out.println("Negative hours not allowed");
44                 System.out.print("Enter hours worked: ");
45                 hoursWorked = k.nextDouble();
46             }
47             System.out.print("\tEnter hourly wage: ");
48             double hourlyWage = k.nextDouble();
49             while (hourlyWage < 0) {
50                 System.out.println("Negative hourly wage not allowed");
51                 System.out.print("Enter hourly wage: ");
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52                  hourlyWage = k.nextDouble();
53              }
54              one.setHoursWorked(hoursWorked);
55              one.setHourlyRate(hourlyWage);
56              System.out.println();
57
58              System.out.println("Worker " + empNum + " Paycheck Information");
59              System.out.println("\tName is: " + empFirst + " " + empLast);
60              System.out.println("\tWeekly Pay is: " +
61                      dollar.format(one.getPay()));
62              System.out.println("\tIncome Taxes is: " +
63                      dollar.format(one.getIncomeTax()));
64              System.out.println("\tNet Pay is: " +
65                      dollar.format(one.getNetPay()));
66
67              System.out.println();
68
69              if (hoursWorked > 40) {
70
71                  System.out.println("Worker " + empNum + " Overtime "
72                          + "Calculation: ");
73                  System.out.println("\tOvertime Pay is: " +
74                          dollar.format(one.getOvertimePay()));
75                  System.out.println("\tOvertime Tax is: " +
76                          dollar.format(one.getOvertimeTaxes()));
77                  System.out.println("\tOvertime Net Pay: " +
78                          dollar.format(one.getOvertimeNetPay()));
79                  System.out.println("\tTotal Net Pay is: " +
80                          dollar.format(one.getTotalNetPay()));
81              }
82
83              k.nextLine();
84
85              System.out.print("Enter Y to process another worker or any other"
86                      + " key to end: ");
87              keyword = k.nextLine();
88          }
89          System.out.println();
90          System.out.println("Total number of Employees processed: " + total);
91      }
92  }
```