

3rd Set

1. Make a second copy of the project from the 2nd Set.
2. Improve your application by including the overtime pay in the net income. It should follow the following conditions:
 - a. When the application has been executed, it will ask the user for the employee code.
 - b. When the employee code has been entered, it will automatically look for the salary level of the employee from its record (employee.txt) then display the name of the employee and salary rate level.
 - c. Then it will ask the user to enter the Time-In of the employee. Enter 00:00 for none.
 - d. Next it will ask the user to enter the Time-Out of the employee. Enter 00:00 for none.
 - e. Then it will ask whether the day is holiday
 - f. Then it will ask the user for the Overtime-In of the employee. Enter 00:00 for none
 - g. Next it will ask the user for the Overtime-Out of the employee. Enter 00:00 for none. Note: Action c to g will repeat four more times to complete the input from Monday to -Friday.
 - h. Then it will ask for the coverage date.

Example: May 15 – 19, 2009

- i. After entering the Time (In-Out), overtime (In-Out) and coverage date, the system will compute the weekly net salary income of the employee and record the daily time inputs in the dtr.txt

j. The system will output the following:

Name of the employee

- Employee name
- Employee code
- Employee level
- Employee rate
- Total number of work hours
- Coverage date
- Regular income
- Overtime income
- Gross income
- Net income

3. Run the test case scenario using your program. Debug if needed.
4. Refer to project description for the TESDA Payroll System for more details.
5. When you are sure that your application is running as required in the project description, call the attention of your assessor and submit your project

TESDA Payroll System TEST CASES # 3

1. Test your application using the following data

Employee Code	Monday				Tuesday				Wednesday		Thursday		Friday	
	Regular		Overtime		Regular		Overtime		Regular		Holiday		Regular	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
A02-0001	08:00	17:01	17:30	20:30	8:00	17:01	17:03	18:30	08:00	17:01	08:00	17:01	08:00	17:01
A02-0003	08:00	17:01	17:30	20:30	13:00	17:01	17:30	18:30	08:00	17:01	08:00	17:01	08:00	17:01

2. Your application should render the following output:

a. For A02-0001

```
*****
Employee Name: Juan Santiago
Employee Code: A02-0001
Salary Level: Level 1
Salary Rate: Php 380.00/day
*****
Date Covered: May 11-15, 2009
Total Number of Work Hours: 32 Hrs.
Overtime hours: 14 Hrs
Regular Income: Php 1520.00
Overtime income: Php 627.00
Gross income: Php 2147.00
Deductions:
* Tax: Php 214.70
* SSS: Php 21.47
Net Income: 1910.83
*****
```

b. For A02-0003

```
*****
Employee Name: Peter Palabrica
Employee Code: A02-0003
Salary Level: Level 3
Salary Rate: Php 550.00/day
*****
Date Covered: May 11-15, 2009
Total Number of Work Hours: 28 Hrs.
Overtime hours: 14 Hrs
Regular Income: Php 1925.00
Overtime income: Php 1058.75
Gross income: Php 2983.75
Deductions:
* Tax: Php 298.37
* SSS: Php 29.83
Net Income: 2625.72
*****
```

I. Overview of the project

The accounting division of TESDA is managing the salary computation of the agency employees. They are computing weekly net income of three hundred (300) employees with various salary rates. To facilitate the computation a computer program needs to be designed.

II. Technical Specifications

A. Environment

The application is designed for console (DOS Mode).

B. User

The application is designed for a single user.

C. Policies

- Salary rate

The employee of TESDA have the following salary rates

- Level 1 = Php 380.00/day
- Level 2 = Php 450.00/day
- Level 3 = Php 550.00/day

- Hourly Rate

Hourly rate for regular working day is computed using the formula below:

Hourly Rate = Employee rate per level/ 8

- Holiday Rate

Hourly rate for regular working day is computed using the formula below:

Hourly Rate (holidays) = (Employee rate per level/ 8)*1.1

- Overtime rate

Overtime rate is computed using the formula below:

Overtime rate/hour = (Basic salary rate/ 8 hrs)*1.1

Overtime starts at 17:30 and ends at 20:30

Project Description for Developing Application Using Procedural-Programming Language

- **Workload**
Each worker is required to work five days a week, eight hours per day (08:00-17:00).
- **Allowance**
Each employee is entitled with Five hundred pesos (Php 500.00) weekly allowance.
- **Deductions**
Each employee is subjected to the following deductions:
 - Tardiness includes absences, under time and late. Refer to salary computation for more details.
 - Tax deduction is 10% of the weekly gross salary income
 - GSIS (1% for level 1, 1.5% for level 2 and 2% for level 3 of the basic salary rate of the worker)

- **Salary Computation**

Late (in hours) = $\text{time-in} - 08:00$ // in case time-in is less than or equal to 08:00, Late is equal to zero

Under time (in hours) = $17:00 - \text{time-out}$ // in case time out is equal or greater than 17:00, under time is equal to zero

Daily work hours = $8\text{hrs} - (\text{late} + \text{under time})$ // 8 hrs should be replaced with 0 in case the person is absent.

Overtime = $\text{overtime out} - \text{overtime in}$ // overtime starts at 17:30 and ends at 20:30

Overtime income = summation of (overtime x overtime rate per hour)

Regular income = summation of (hourly rate x daily work hours)

Weekly Gross Salary Income (WGSi) = regular income + overtime

Weekly Net Salary Income = $(\text{WGSi} - (\text{Tax deduction} + \text{GSIS})) + \text{allowance}$

Total number of work hours = summation of daily work hours

D. System Operation

1. Inputs

The system will require the following inputs from the user:

- a. Employee code
- b. Time (In-Out), Monday-Friday
- c. Overtime (In-Out) Monday-Friday
- d. Coverage date

2. Process

After the above information has been entered the system will utilize its record to look for the level of the employee (employee.txt) then compute for the regular income, overtime income, gross income, net income.

3. Daily Time Records

Once the daily time (In-Out) and overtime (In-Out) record of the employee has been entered into the system, it will automatically update its internal record (dtr.txt).

4. Report

In every record process by the system, it should generate the following reports:

- a. Name of employee
- b. Employee number
- c. Employee level
- d. Coverage date
- e. Total number of work hours
- f. Regular income
- g. Overtime income
- h. Weekly gross salary
- i. Deductions
 - Tax
 - GSIS
- j. Net salary income
- k. Date the record has been generated

E. Data Format

- Time will be in military format (00:00-24:00)
- Date shall be in this format May 18, 2009
- Currency shall be in this format (Php 2, 800.00)