



Diploma in ICT & Computing
Unit 03 - Introduction to Visual
Programming
Practical Examination Paper

Time :3 Hours

Instructions to Invigilators,

No reference material of any kind be taken in to the examination hall by the students.

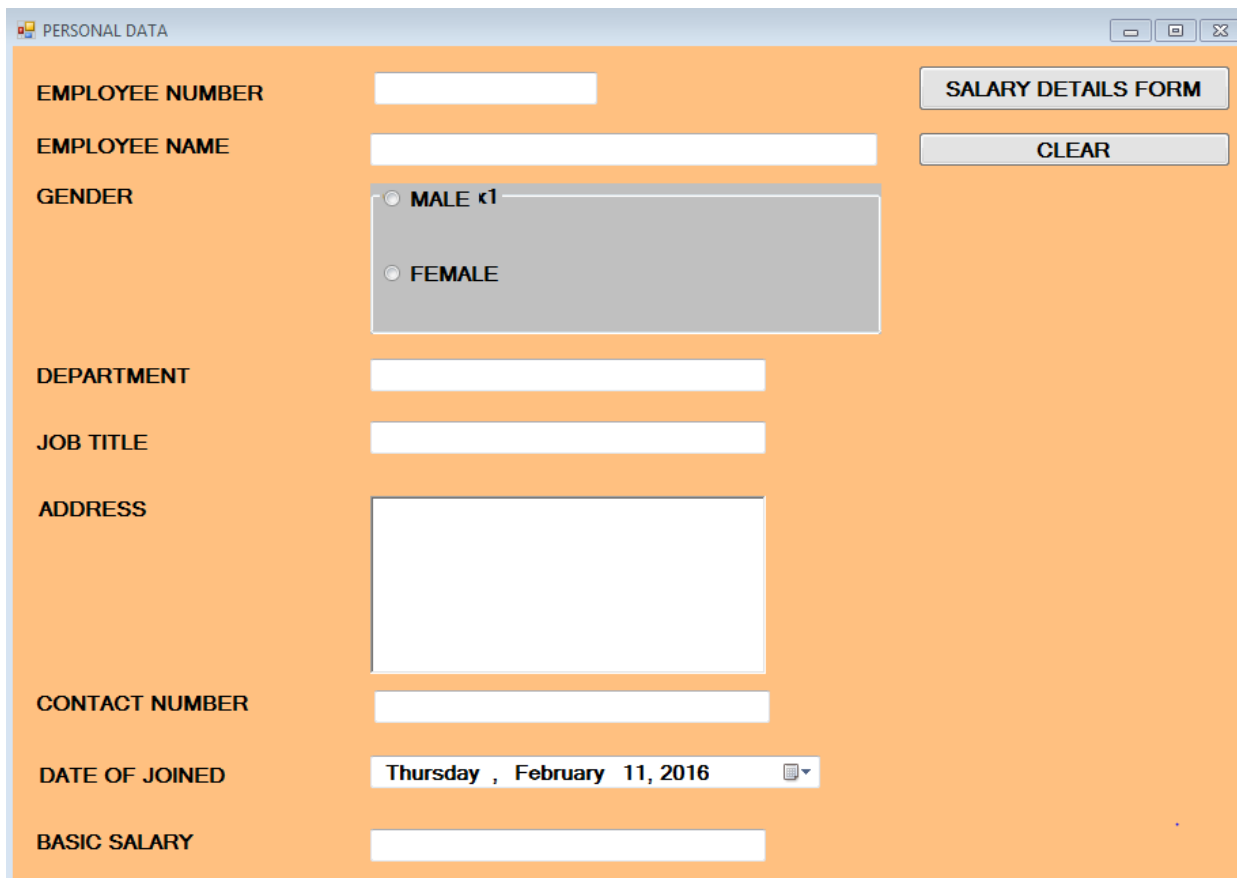
Assumptions

- An employee Works 8 hours per day.
- **No Pay Rate (per day)** is calculate by **Basic Salary/30 days**.
- **Rate Per Hour** is calculate by **Basic Salary/(30 days × 8 hrs)**
- **Total Additions= Additional Hours * Rate per hour.**
- **Total Deduction= No pay days * No Pay Rate (Per Day)**
- **Net Salary= (Basic Salary + Total additions) -Total Deductions.**

Task 1

Create the following interface using VB.NET

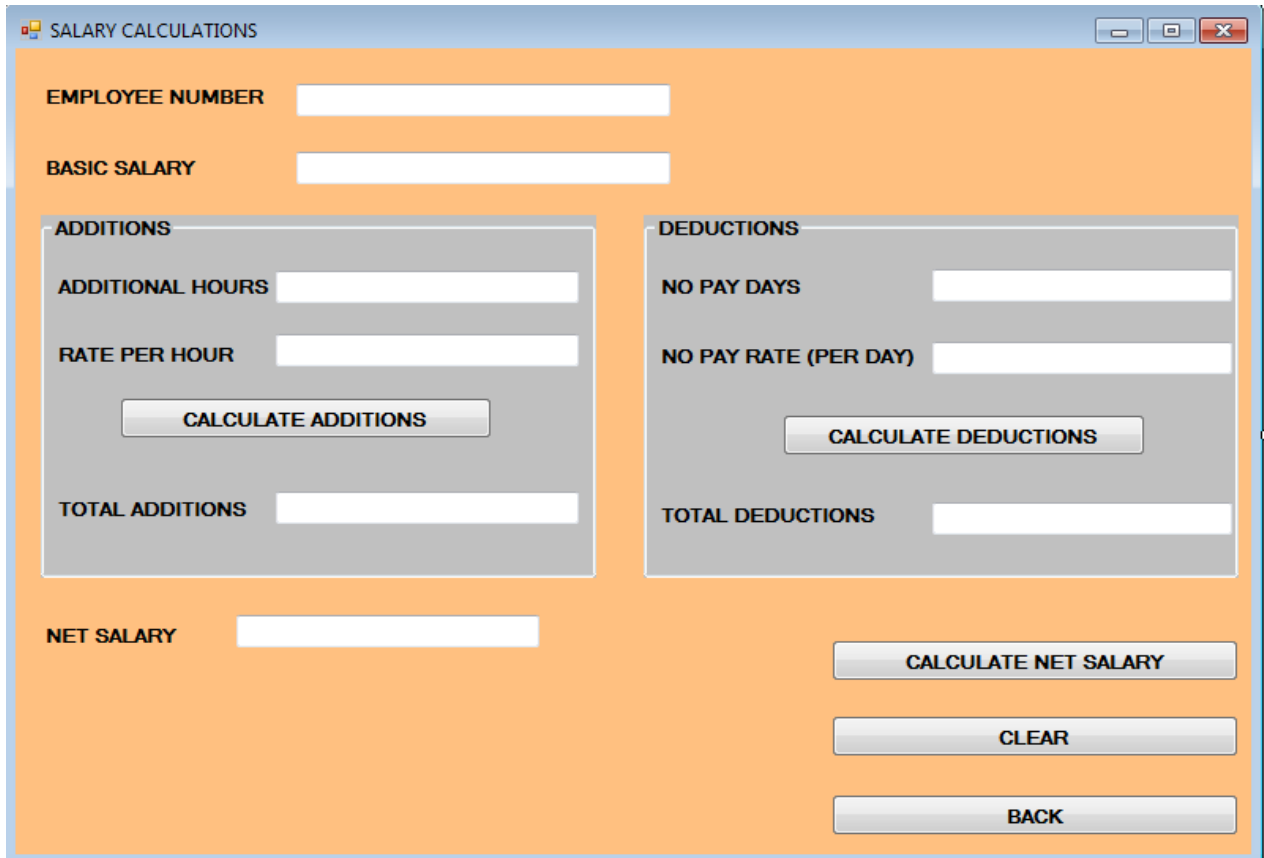
Form 1: Personal Data



The screenshot shows a Windows application window titled "PERSONAL DATA". The form has an orange background and contains the following elements:

- EMPLOYEE NUMBER:** A single-line text input field.
- EMPLOYEE NAME:** A single-line text input field.
- GENDER:** A group box containing two radio buttons: "MALE" (selected) and "FEMALE".
- DEPARTMENT:** A single-line text input field.
- JOB TITLE:** A single-line text input field.
- ADDRESS:** A multi-line text input field.
- CONTACT NUMBER:** A single-line text input field.
- DATE OF JOINED:** A date picker showing "Thursday , February 11, 2016".
- BASIC SALARY:** A single-line text input field.
- Buttons:** Two buttons are located on the right side: "SALARY DETAILS FORM" and "CLEAR".

Form 2: Salary Calculation



The screenshot shows a software window titled "SALARY CALCULATIONS". It contains several input fields and buttons. At the top, there are fields for "EMPLOYEE NUMBER" and "BASIC SALARY". Below these are two main sections: "ADDITIONS" and "DEDUCTIONS". The "ADDITIONS" section includes fields for "ADDITIONAL HOURS" and "RATE PER HOUR", a "CALCULATE ADDITIONS" button, and a "TOTAL ADDITIONS" field. The "DEDUCTIONS" section includes fields for "NO PAY DAYS" and "NO PAY RATE (PER DAY)", a "CALCULATE DEDUCTIONS" button, and a "TOTAL DEDUCTIONS" field. At the bottom left is a "NET SALARY" field. On the bottom right are three buttons: "CALCULATE NET SALARY", "CLEAR", and "BACK".

Task 2

Perform the following actions with appropriate event procedures

Form 1

- When the **form 1** is appears to the screen, do not allow the user to accept the “**Salary Details Form**” button, then after that entering the data to the available TextBoxes & then allow the user to access “**Salary Details Form**” button again.
- By clicking the “**Salary Details Form**” button hide the current form (form 1) and display the Second form (form 2).
- By clicking the “**clear**” button refresh the form for a new process.

Form 2:

- When the **form 2** is load in to the Screen display the “**Employee Number**” and “**Basic Salary**” from the form 1.
- After entering the “**Additional Hours**” calculate the “**Rate per Hour**” According to the given formula.
- By clicking the “Calculate Addition” button calculate the “**Total Additions**”
- After entering the “**No Pay Days**” calculate the “**No Pay Rate (per day)**” according to the given formula.
- Then calculate the “**Net Salary**” according to the given formula.
- By clicking the “**clear**” button refresh the form 2.
- By clicking the “**Back**” button ask that “do you want to get the personal data form?” .and if the response is “yes” display the first form otherwise Stop the programme.

Note:

- You need to provide a correct naming method when designing the form designers (use meaning full names for controls).
- Use additional messages as required to direct the user and handle errors and additional controlling methods to increase the user friendliness.