

Payroll Application [Element 1]

The screenshot shows a Windows-style application window titled "Payroll Application [ACME Ltd]". The window has a light gray background and a blue title bar. The main content area displays the following elements:

- Rate of Pay: 5
- Number of Hours: 10
- Gross Pay: 50
- Taxes: 20
- Net Pay: 30

A button labeled "Calculate Payment" is positioned to the left of the output fields. A red text label "Emergency Taxes is 40%" is located to the right of the input fields.

Brief Description

This is my first attempt at writing a program using Visual Basic. Before attempting to write the code, I had to use a blank piece of paper as a draft to visualise on my mind how the program will work, and what variables and calculation do I need to make.

First of all I declared all the variables as integers, with the exemption of the *Rate of Pay* (*sngRatePay*) that was declared as a real-single number. I then wrote the code so that when you click on the *Calculate Payment* button, the real-single value of *Rate of Pay* (*sngRatePay*) is multiply by the integer value of *Number of Hours* (*intNoHours*). The result is the *Gross Pay* (*intGrossPay*) which is displayed in the 'Gross Pay' text field.

Taxes are calculated by multiplying the *Gross Pay* (*intGrossPay*) by the number 0.4 that represents a 40% of emergency taxes.

The *Net Pay* (*intNetPay*) will therefore be the *Gross Pay* (*intGrossPay*) minus the *Taxes Pay* (*intTaxesPay*).

I added a text label called *Payroll Application [ACME Ltd]* to identify the fictitious name of the Company for which the program is designed for. I also added in bold-red text font that rate of the Emergency Taxes.

Programming listing of Payroll Application [Element 1]

```
Public Class frmMain

    Private Sub btnNetPay_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnNetPay.Click
        Dim intNoHours, intGrossPay, intNetPay, intTaxesPay As Integer
        Dim sngRatePay As Single

        sngRatePay = CSng(txtRateOfPay.Text)
        intNoHours = CInt(txtNoHours.Text)

        intGrossPay = sngRatePay * intNoHours
        intTaxesPay = intGrossPay * 0.4
        intNetPay = intGrossPay - intTaxesPay

        txtGrossPay.Text = CStr(intGrossPay)
        txtNetPay.Text = CStr(intNetPay)
        txtTaxesPay.Text = CStr(intTaxesPay)

    End Sub
End Class
```