

UNIVERSITI TEKNOLOGI MALAYSIA DEPARTMENT OF COMPUTER SCIENCE & SERVICES, UTM KL SEMESTER I, SESSION 2022/2023

LAB SKILL 2

DDWD 2653: VB.NET PROGRAMMING

SECTION 38

NAME:

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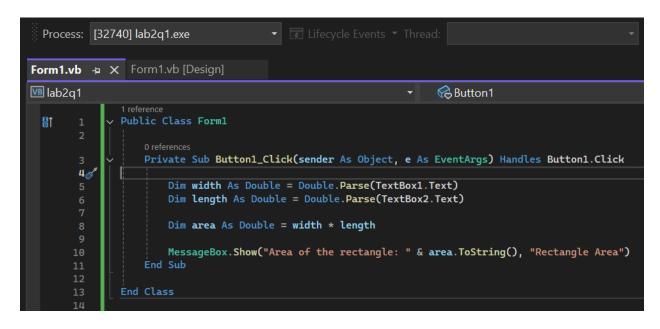
COURSE: 3 DDWD - DIPLOMA IN COMPUTER SCIENCE

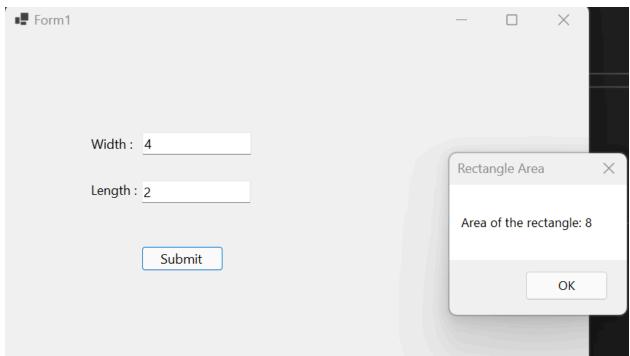
SUBMISSION DATE: 31 AUGUST 2024

LECTURER'S NAME: MISS NOR SYAFIQAH

1. Write a VB.Net program which can read a value of width and length for a rectangle and calculate the area for the rectangle.

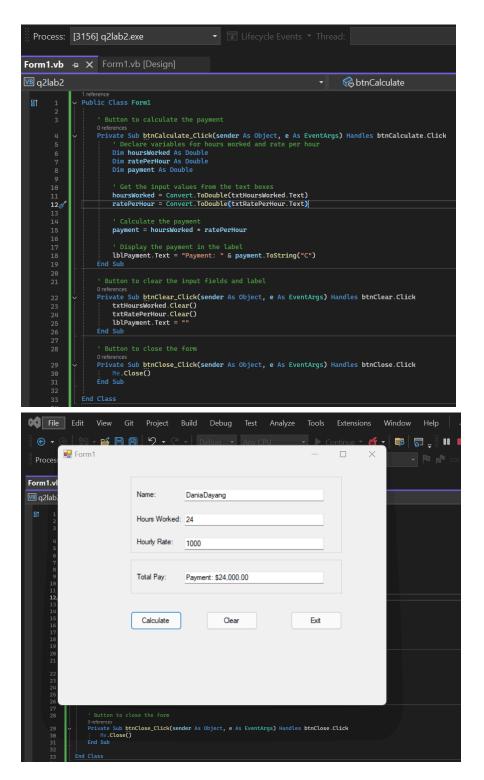
Answer:





2. Based on the following Form, create a program to calculate the staff payment based on their hours working and rate per hour.

Answer:



3. Write a program that can guide a consumer on how much to spend for food, rental, utility etc for each month based on their salary and their overtime pay. The guide for how much to allocate for each item are based on the following table:-

Type of expenses	Percentage of Allocation(%)
FOOD	20
RENTAL	30
TRANSPORT	20
UTILITY	10
SAVING	10
INSURANCE	10

Table 1: Allocation of expenses

User will enter their name, salary and overtime pay and program should then display how much user should spend their income on each of the expenses category. Design suitable User Interface for this program. (button, label, group box etc)

ANSWER:

```
Process: [23416] cutielab2.exe

Form1.vb + X

Form1.vb [Design]

VB cutielab2

V Public Class Form1

Set the title of the form
Oreferences
Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
Me.Text = "Expense Allocation Calculator"
End Sub

Button to calculate the expense allocations
Oreferences
Private Sub btnCalculate.Click(sender As Object, e As EventArgs) Handles btnCalculate.Click
Dim salary As Double
Dim solare variables for salary, overtime pay, and total income
Dim salary As Double
Dim totalIncome As Double
Dim totalIncome As Double
Total Transport Todouble(txtSalary Text)
OvertimePay = Convert.ToDouble(txtSalary Text)
OvertimePay = Convert.Todouble(txtOvertimePay.Text)

Calculate total income
totalIncome = salary + overtimePay

Calculate total income
totalIncome = salary + overtimePay

Liblrood.Text = (totalIncome * 0.3).ToString("c")
Liblransport.Text = (totalIncome * 0.1).ToString("c")
LibltSaving.Text = (totalIncome * 0.1).ToString("c")
LiblInsurance.Text = (totalIncome * 0.1).ToString("c")
```

```
Button to clear the input fields and labels
Oreferences

Private Sub btnClear_Click(sender As Object, e As EventArgs) Handles btnClear.Click

txtSalary.Clear()
txtOvertimePay.Clear()

lblFood.Text = ""
lblRental.Text = ""
lblIransport.Text = ""
lblIransport.Text = ""
lblSaving.Text = ""
Label9.Text = ""

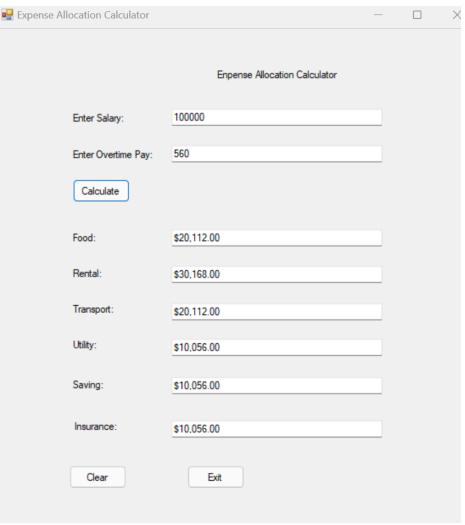
End Sub

Button to close the form
Oreferences
Private Sub btnClose_Click(sender As Object, e As EventArgs) Handles btnClose.Click

Me.Close()
End Sub

End Class

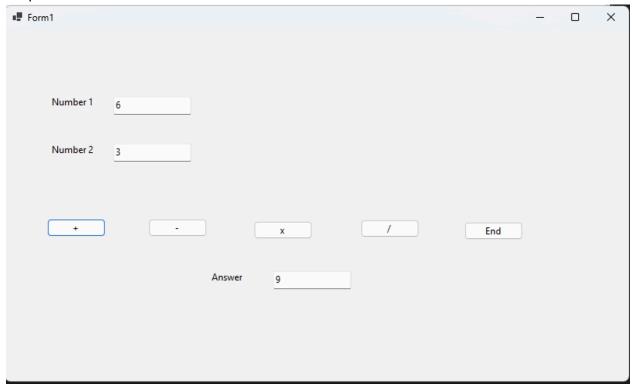
End Class
```



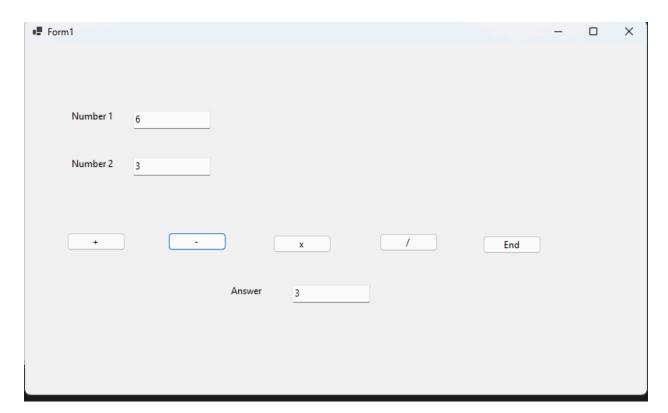
4. Write a VB.Net program which will allow user calculate the sum, subtraction, multiplication or division of 2 numbers. Your program must have :-

2 text box for user to enter 2 number 5 button o Add, Subtract, Multiply, Divide,End One label for result

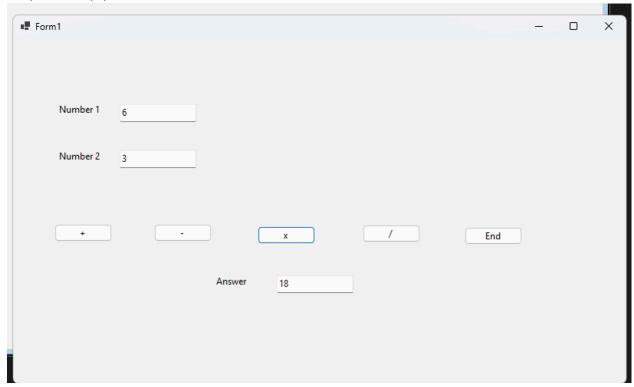
Output Add:



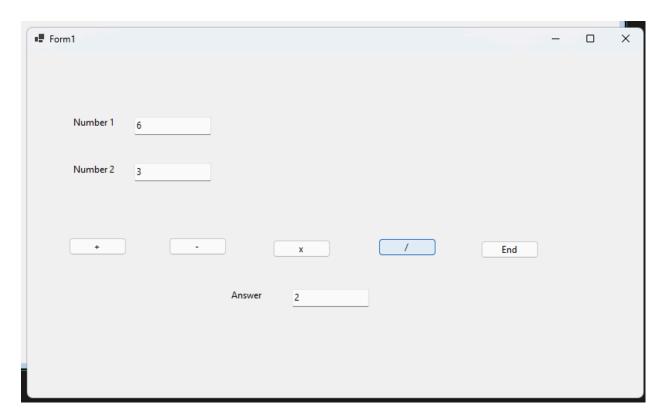
Output Minus:



Output Multiply:



Output Divide:



5. Write a Vb.net based on the following program output:-

```
1 reference
Public Class Form1
                       Private TotalNumberOfBooks As Integer
Private TotalDiscountsGiven As Decimal
Private TotalDiscountedAmounts As Decimal
Private AverageDiscount As Decimal
                       Drivate Sub calcbtn_Click(sender As Object, e As EventArgs) Handles calcbtn.Click

Dim qty As Integer = Integer.Parse(qtybox.Text)

Dim price As Double = Double.Parse(pricebox.Text)
                               Dim eprice As Double = qty * price
epricebox.Text = eprice.ToString()
                              Dim disc As Double = eprice * 0.15
discbox.Text = disc.ToString()
                              Dim discprice As Double = eprice - disc
discpricebox.Text = discprice.ToString
                               TotalNumberOfBooks += qty
TotalDiscountsGiven += disc
TotalDiscountedAmounts += discprice
AverageDiscount = TotalDiscountsGiven / TotalNumberOfBooks
                               UpdateSummary()
                       End Sub
                       O references

Private Sub clearbtn_Click(sender As Object, e As EventArgs) Handles clearbtn.Click

qtybox.Text = ""

titlebox.Text = ""

pricebox.Text = ""

discbox.Text = ""

discpricebox.Text = ""

discpricebox.Text = ""
                               TotalNumberOfBooks = 0
TotalDiscountsGiven = 0
                               TotalDiscountedAmounts = 0
AverageDiscount = 0
                        UpdateSummary()
End Sub
                       O references
Private Sub exitbtn_Click(sender As Object, e As EventArgs) Handles exitbtn.Click
| Me.Close()
End Sub
                                 totalbook.Text = TotalNumberOfBooks.ToString()
totaldisc.Text = TotalDiscountsGiven.ToString()
totaldiscam.Text = TotalDiscountedAmounts.ToString()
54
55⊘
                         avgdisc.Text = AverageDiscount.ToString()
End Sub
```

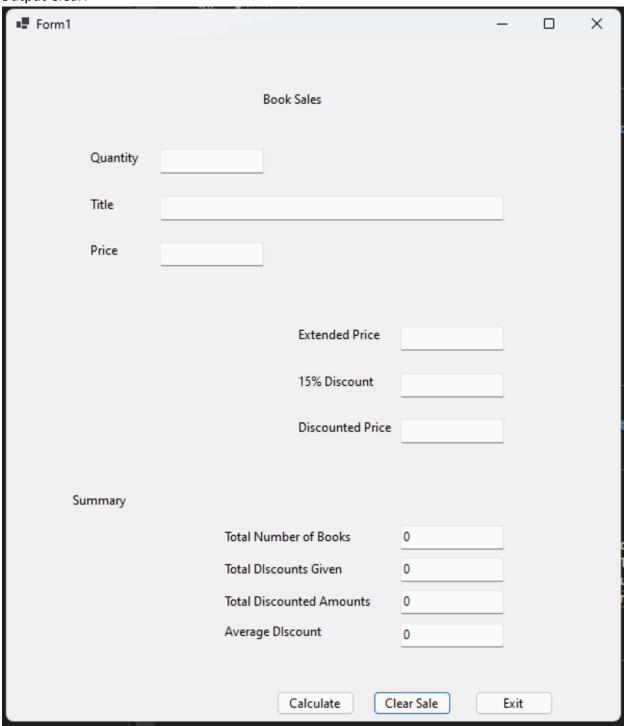
Output 1:

output ±:				
■ Form1		-	- 0	×
	Book Sales			
	200.000			
Quantity	6			
Title	the fault in our stars			
Price	50			
	Extended Price	300		
	15% Discount	45		
		43		
	Discounted Price	255		
Summary				
	Total Number of Books	6		
	Total Discounts Given	45		
	Total Discounted Amounts	255		
	Average Discount	7.5		
	•			
			F :	
	Calculate C	lear Sale	Exit	

Output 2:

■ Form1		-	- 0	×
	Book Sales			
Quantity	8			
Title	it ends with us			
Price	60			
	Extended Price	480		
	15% Discount	72		
	Discounted Price	408		
Summary				
	Total Number of Books	14		
	Total Discounts Given	117		
	Total Discounted Amounts	663		
	Average Discount	8.35714285714285		
	Calculate CI	ear Sale	Exit	

Output Clear:



6. Write a Vb.net based on the following program specification:User can enter width and height of box
Program will display a box according the width and height value entered by user.

Output:

