higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE (VOCATIONAL)

INTRODUCTION TO SYSTEMS DEVELOPMENT
NQF LEVEL 2
(Second paper)

4 December 2024

This marking guideline consists of 6 pages.

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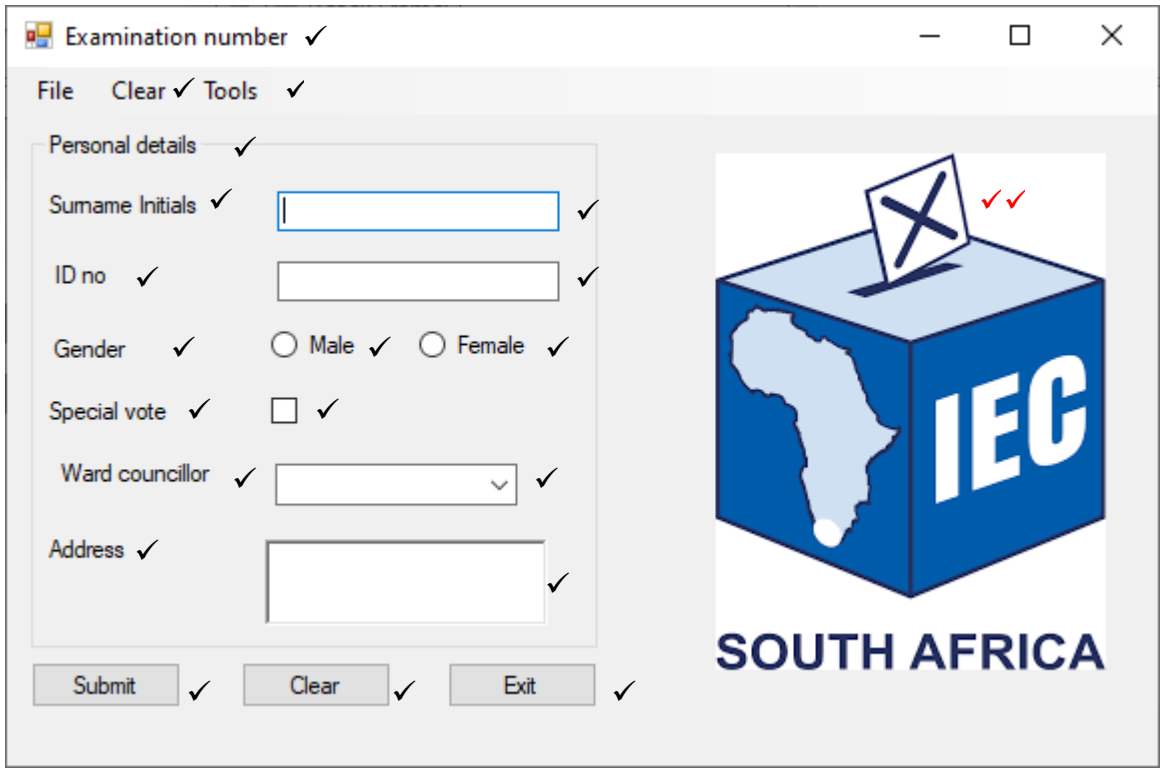
QUESTION 1



(22)

1.12 Print the user interface. (1)

[23]

QUESTION 2

2.1 Examination number✓ (1)

2.2.1
```
If (txtFullname.Text = ""✓ Or cmbTickets.SelectedItem = "")✓ Then
    MessageBox.Show("Please supply all the information!") ✓
    Exit Sub✓
End If
```
(4)

[OR ANY OTHER APPLICABLE VARIANT OF THE ABOVE CODE]

2.2.2
```
tickettype = cmbTickets.SelectedItem✓
```
(1)

2.2.3
```
If radDomestic.Checked Then✓
   flight = "Domestic"✓
ElseIf radInternational.Checked Then✓
   flight = "International"✓
End If
```
(4)

[OR ANY OTHER APPLICABLE VARIANT OF THE ABOVE CODE]

2.2.4
```
If (tickettype = "Economy Class") Then✓
    If (flight = "Domestic") Then✓
        initialcost = 1000✓
    Else
        initialcost = 1800✓
    End If
ElseIf (tickettype = "Business Class") Then✓
    If (flight = "Domestic") Then✓
        initialcost = 2000✓
    Else
        initialcost = 2500✓
    End If
ElseIf (tickettype = "First Class") Then✓
    If (flight = "Domestic") Then✓
        initialcost = 3000✓
    Else
       initialcost = 5000✓
    End If
End If✓
```
[OR ANY OTHER APPLICABLE VARIANT OF THE ABOVE CODE] (13)

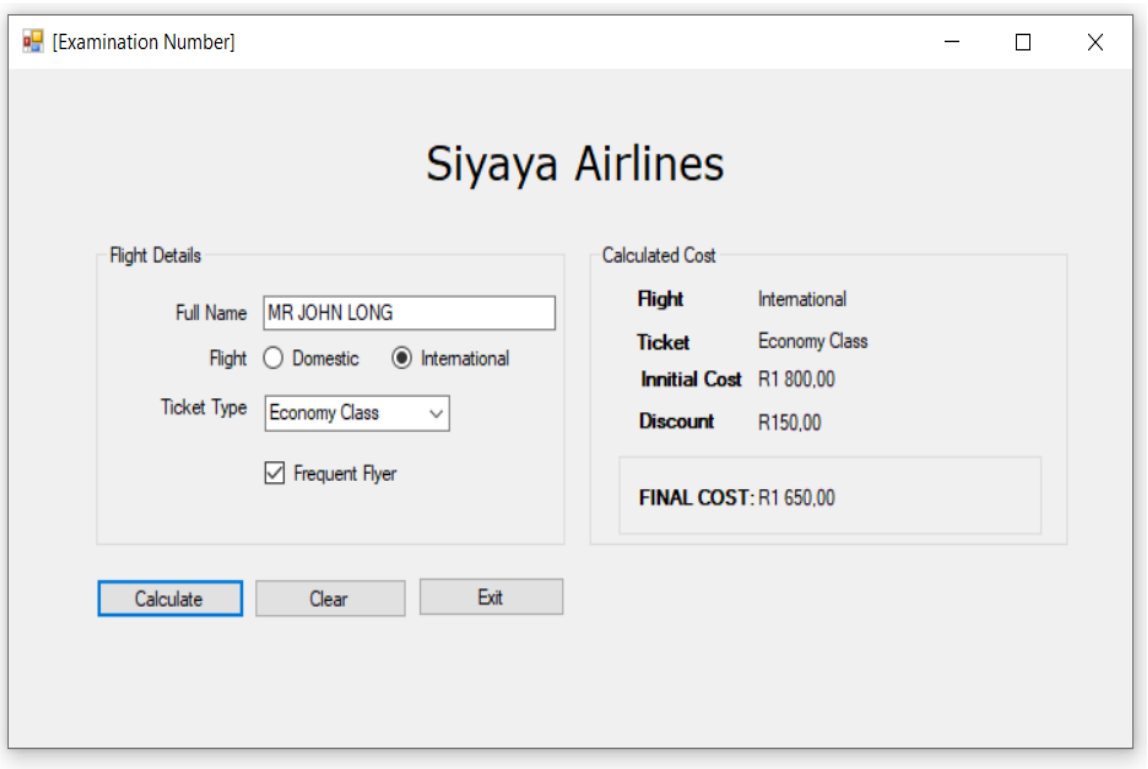
2.2.5
```
flyerdiscount = 0✓
If chkFrequent.Checked Then✓
   If (tickettype = "Economy Class") Then✓
      flyerdiscount = 150✓
   ElseIf (tickettype = "Business Class") Then ✓
      flyerdiscount = 300✓
   ElseIf (tickettype = "First Class") Then ✓
      flyerdiscount = 450✓
   End If
End If
```
(8)
[OR ANY OTHER APPLICABLE VARIANT OF THE ABOVE CODE]

2.2.6
```
finalcost = initialcost - flyerdiscount✓
```
(1)

2.2.7
```
lblFlight.Text = flight ✓
lblTicket.Text = tickettype ✓
lblInitialCost.Text = FormatCurrency(initialcost) ✓
lblDiscount.Text = FormatCurrency(flyerdiscount) ✓
lblFinalCost.Text = FormatCurrency(finalcost)✓
```
[OR ANY OTHER APPLICABLE VARIANT OF THE ABOVE CODE] (5)

2.3 Source Code (1)

2.4 Print screen of test data



(1)
[39]

QUESTION 3

3.1 Examination number✓ (1)

3.2.1
```
Try✓
  subtotal = Convert.ToDecimal(txtSubtotal.Text) ✓
Catch ex As Exception✓
   MessageBox.Show("Please enter a numeric Sub Total!", "Input
             Error", MessageBoxButtons.OK, MessageBoxIcon.Error) ✓
   txtSubtotal.Text = ""
   txtSubtotal.Focus()✓
   Exit Sub✓
 End Try✓
```
[OR ANY OTHER APPLICABLE VARIANT OF THE ABOVE CODE] (7)

3.2.2
```
waiter = txtWaiterName.Text
```
(1)

3.2.3
```
If (subtotal < 3000) Then✓
    ' 10% tip applies
     waiter_tip = (subtotal * 0.1) ✓
     restaurant = subtotal - waiter_tip✓
     busboy = 0✓
Else✓
    ' 20% tip applies
     waiter_tip = (subtotal * 0.2) ✓
     restaurant = subtotal - waiter_tip✓
     busboy = waiter_tip * 0.04✓
     waiter_tip = waiter_tip - busboy✓
End If✓
```
[OR ANY OTHER APPLICABLE VARIANT OF THE ABOVE CODE] (10)

3.2.4
```
lblWaiter.Text = FormatCurrency(waiter_tip) ✓
lblBusboy.Text = FormatCurrency(busboy) ✓
lblRestaurant.Text = FormatCurrency(restaurant) ✓
```
(3)

3.2.5
```
lblSummary.Text✓ = "Waiter name: " & waiter & ✓vbCrLf & "Tip amount:
" & FormatCurrency(waiter_tip) & vbCrLf✓ & "Restaurant amount: " &
FormatCurrency(restaurant) ✓ & vbCrLf & "Busboy amount due: " &
FormatCurrency(busboy) ✓
```
(5)

3.3
```
txtSubtotal.Text = ""✓
txtWaiterName.Text = ""
lblSummary.Text = ""
lblBusboy.Text = ""✓
lblWaiter.Text = ""✓
lblRestaurant.Text = ""
txtWaiterName.Focus()✓
```
(4)

3.4
```
Dim result As DialogResult✓
result = MessageBox.Show("Are you sure you want to quit?", "Exit
Confirmation", MessageBoxButtons.YesNo, MessageBoxIcon.Question) ✓✓
' Check the user's response
If result = DialogResult.Yes Then✓
  ' If the user clicked "Yes", close the application
   Me.Close()✓
End If
```
(5)
[OR ANY OTHER APPLICABLE VARIANT OF THE ABOVE CODE]

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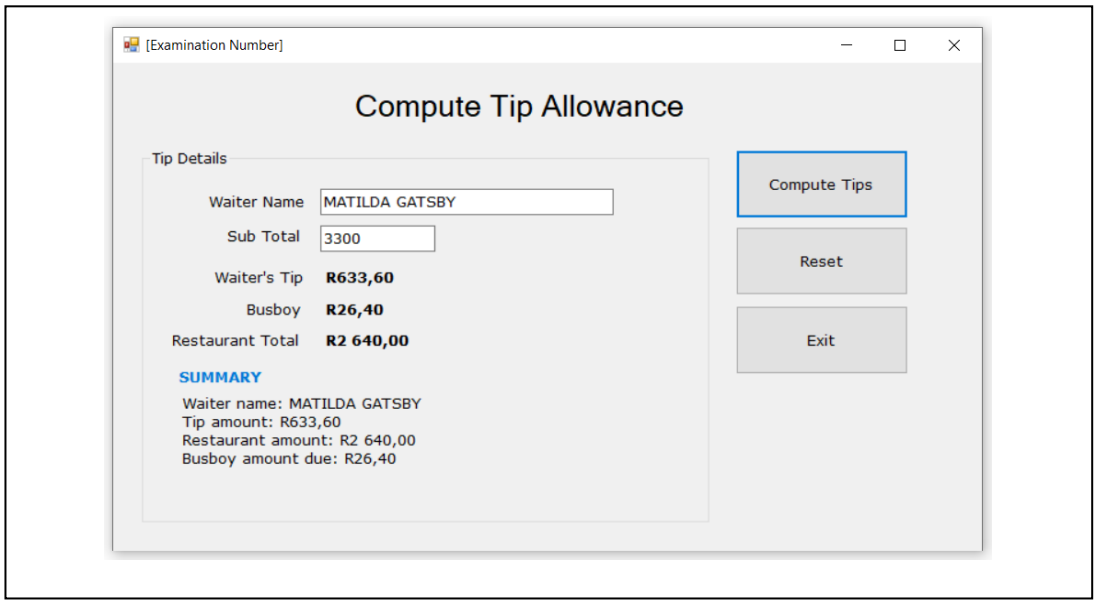
3.5 (1)



3.6 Source code✓ (1)

[38]

TOTAL: 100

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