ANNEXURE - II

; VISUAL BASIC PROGRAM FOR MICROCONTROLLER BASED SMART CARD
ATTENDANCE TERMINAL SYSTEM

Private Sub cmdAddBlockList_Click()
    Dim strMsg As String
    If MSComm1.PortOpen = False Then
        MsgBox "Port Not Open", vbCritical
        Exit Sub
    End If
    strMsg = InputBox("Enter Block Listed Card ID", "Terminal")
    If Len(strMsg) = 0 Then Exit Sub
    If Len(strMsg) <> 4 Then
        MsgBox "Cardld should be 4 digits"
        Exit Sub
    End If
    strMsg = "A" & strMsg & Chr$(13)
    MSComm1.Output = strMsg
End Sub

Private Sub cmdAnalysis_Click()
    If MSComm1.PortOpen = False Then
        MsgBox "Port Not Open", vbCritical
        Exit Sub
    End If
    frmanalysis.Show
    Dim h As Integer
    Dim x1(4) As String
    Dim x2(3) As String
    Dim x3(3) As String
    Dim ss As String
    txtBuff = "30303039331712040605303030384017020406053030303947170204060605"
    h = 1
    While h <= Len(txtBuff) - 2
        Data1.Recordset.AddNew
        x1(l) = Mid(txtBuff, h, 2) + " "
        h = h + 2
    Wend
Dim ss As String
'txtBuff = "30303933171204065303038401702040605303039471702040605"
h = 1
While h <= Len(txtBuff) - 2
Data1.Recordset.AddNew

xl(1) = Mid(txtBuff, h, 2) + ""
xl(2) = Mid(txtBuff, h + 2, 2) + ""
xl(3) = Mid(txtBuff, h + 4, 2) + ""
xl(4) = Mid(txtBuff, h + 6, 2) + ""
'Text2 = Text2 + Chr(xl(1) + 18) + Chr(xl(2) + 18) + Chr(xl(3) + 18) + Chr(xl(4) + 18)
ss = Chr(xl(1) + 18) + Chr(xl(2) + 18) + Chr(xl(3) + 18) + Chr(xl(4) + 18)
Data1.Recordset.Fields(0) = Chr(xl(1) + 18) + Chr(xl(2) + 18) + Chr(xl(3) + 18) + Chr(xl(4) + 18)

x2(1) = Mid(txtBuff, h + 8, 2) + ""
x2(2) = Mid(txtBuff, h + 10, 2) + ""
x2(3) = Mid(txtBuff, h + 12, 2) + ""
' TEXT2 = TEXT2 + x2(1) + x2(2) + x2(3)
Dim v As Integer
Dim lt As Variant
v = Val(x2(3))
If (v < 10) Then
lt = 0
Else
lt = ((v - 10) * 60) + Val(x2(2))

End If
lt = lt

Data1.Recordset.Fields(1) = x2(3) + x2(2) + x2(1)
x3(1) = Mid(txtBuff, h + 14, 2) + ""
x3(2) = Mid(txtBuff, h + 16, 2) + ""
x3(3) = Mid(txtBuff, h + 18, 2) + ""
Text2 = Text2 + x3(1) + x3(2) + x3(3)
Dim SSS
SSS = x3(1) + x3(2) + x3(3)
Data1.Recordset.Fields(2) = CDate(SSS)
Data1.Recordset.Fields(3) = lt
h = h + 20

Data2.Recordset.FindFirst " id = " & ss & ""

Data1.Recordset.Fields(4) = Data2.Recordset.Fields(0)
Data1.Recordset.Update (1)
Wend

End Sub

Private Sub Cmdclear_Click()
    txtBuff.Text = ""
End Sub

Private Sub cmdClearBlk_Click()
    If MSComm1.PortOpen = False Then
        MsgBox "Port Not Open", vbCritical
        Exit Sub
    End If
    MSComm1.Output = "C" & Chr$(13)
End Sub

Private Sub cmdClose_Click()
    If MSComm1.PortOpen = True Then MSComm1.PortOpen = False
    Unload Me
End Sub

Private Sub cmdData_Click()
    If MSComm1.PortOpen = False Then
        MsgBox "Port Not Open", vbCritical
        Exit Sub
    End If
    strMsg = InputBox("Enter data To Send", "Terminal")
    MSComm1.Output = strMsg
End Sub

Private Sub cmdDebug_Click()
    If MSComm1.PortOpen = False Then
        MsgBox "Port Not Open", vbCritical
        Exit Sub
    End If
    MSComm1.Output = "D" & " " & Chr$(13)
End Sub
Private Sub cmdInitEEP_Click()
    If MSComm1.PortOpen = False Then
        MsgBox "Port Not Open", vbCritical
        Exit Sub
    End If
    MSComm1.Output = "E" & " " & Chr$(13)
End Sub

Private Sub CmdOpenPort_Click()
    frmComPort.Show
End Sub

Private Sub cmdRTC_Click()
    If MSComm1.PortOpen = False Then
        MsgBox "Port Not Open", vbCritical
        Exit Sub
    End If
    frmRTC.Show
End Sub

Private Sub cmdSetMsg_Click()
    Dim strMsg As String
    If MSComm1.PortOpen = False Then
        MsgBox "Port Not Open", vbCritical
        Exit Sub
    End If
    strMsg = InputBox("Enter Message To Set", "Terminal")
    If Len(strMsg) = 0 Then Exit Sub
    If Len(strMsg) > 16 Then
        strMsg = Mid(strMsg, 1, 16)
    End If
    If Len(strMsg) < 16 Then
        strMsg = strMsg & " "
        strMsg = Mid(strMsg, 1, 16)
    End If
    strMsg = "M" & strMsg & Chr$(13)
    MSComm1.Output = strMsg
End Sub

Private Sub cmdUpload_Click()
    If MSComm1.PortOpen = False Then
        MsgBox "Port Not Open", vbCritical
Private Sub MSComm1_OnComm()
    Select Case MSComm1.CommEvent
        ' Handle each event or error by placing
        ' code below each case statement
        Errors
            Case comEventBreak ' A Break was received.
            Case comEventFrame ' Framing Error
            Case comEventOverrun ' Data Lost.
            Case comEventRxOver ' Receive buffer overflow.
            Case comEventRxParity ' Parity Error.
            Case comEventTxFull ' Transmit buffer full.
            Case comEventDCB ' Unexpected error retrieving DCB
        Events
            Case comEvCD ' Change in the CD line.
            Case comEvCTS ' Change in the CTS line.
            Case comEvDSR ' Change in the DSR line.
            Case comEvRing ' Change in the Ring Indicator.
            Case comEvReceive ' Received RThreshold # of
                ' chars.
                txtBuff = txtBuff & MSComm1.Input
            Case comEvSend ' There are SThreshold number of
                ' characters in the transmit
                ' buffer.
            Case comEvEOF ' An EOF character was found in
                ' the input stream
    End Select
End Sub

Private Sub Cmd1cancel_Click()
    Unload Me
End Sub

Private Sub Cmd1ok_Click()
    If Optindi.Value = True Then
        frmIndi.Show
    Else
        Optigrp.Value = True
        frmgrp.Show
    End If
Private Sub cmdCancel_Click()
    Unload Me
End Sub

Private Sub cmdOK_Click()
    If Form1.MSComm1.PortOpen = True Then Form1.MSComm1.PortOpen = False
    If OptCOM1.Value = True Then
        Form1.MSComm1.CommPort = 1
    Else
        Form1.MSComm1.CommPort = 2
    End If
    Form1.MSComm1.Settings = "9600,N,8,1"
    Form1.MSComm1.PortOpen = True
End Sub

Private Sub cmdCancel_Click()
    Unload Me
End Sub

Private Sub cmdOK_Click()
    Dim strRTCDate As String
    Dim strRTCTime As String
    Dim strRTCDateSend As String
    Dim strRTCTimeSend As String
    strRTCDate = txtRTC(0) & "/" & txtRTC(1) & "/" & txtRTC(2)
    strRTCTime = txtRTC(3) & ":00"
    If IsDate(strRTCDate) = False Then
        MsgBox "Invalid Date"
        Exit Sub
    End If
    If IsDate(strRTCTime) = False Then
        MsgBox "Invalid Time"
        Exit Sub
    End If
    strRTCDateSend = txtRTC(0) & txtRTC(1) & txtRTC(2)
    strRTCTimeSend = txtRTC(3) & "00"
    Form1.MSComm1.Output = "R" & strRTCDateSend & strRTCTimeSend & Chr$(13)
End Sub
Private Sub Form_Load()
    txtRTC(0) = "DD"
    txtRTC(1) = "MM"
    txtRTC(2) = "YY"
    txtRTC(3) = "HH"
    txtRTC(4) = "MM"
End Sub

Private Sub txtRTC_LostFocus(Index As Integer)
    If Len(txtRTC(Index)) = 0 Then
        txtRTC(Index) = "00"
    Else
        If Len(txtRTC(Index)) = 1 Then
            txtRTC(Index) = "0" & txtRTC(Index)
        End If
    End If
End If

Private Sub Connection1_WillExecute(Source As String, CursorType As ADODB.CursorTypeEnum, LockType As ADODB.LockTypeEnum, Options As Long, adStatus As ADODB.EventStatusEnum, ByVal pCommand As ADODB.Command, ByVal pRecordset As ADODB.Recordset, ByVal pConnection As ADODB.Connection)
    Dim C
    Dim D As Date
    C = InputBox("ENTER ID NUMBER ", "EMPLOYEE NUMBER")
    D = InputBox("ENTER DATE ", "DATE")
    If (Len(C) <> 0 Or Len(D) <> 0) Then
        Source = "DATA WHERE * *...& C & & " AND DATE = " & & D & ""
    Else
        MsgBox ("DATA IS MANDATORY")
    End If
End Sub

Private Sub Connection1_WillExecute(Source As String, CursorType As ADODB.CursorTypeEnum, LockType As ADODB.LockTypeEnum, Options As Long, adStatus As ADODB.EventStatusEnum, ByVal pCommand As ADODB.Command, ByVal pRecordset As ADODB.Recordset, ByVal pConnection As ADODB.Connection)
    Dim D As Date
D = InputBox("ENTER DATE ", "DATE")
If (Len(D) <> 0) Then
Source = "DATA WHERE DATE = " & & D &
Else
MsgBox ("DATA IS MANDATORY")
End If

End Sub

Private Sub Connection1_WillExecute(Source As String, CursorType As
ADODB.CursorTypeEnum, LockType As ADODB.LockTypeEnum,
Options As Long, adStatus As ADODB.EventStatusEnum, ByVal
pCommand As ADODB.Command, ByVal pRecordset As
ADODB.Recordset, ByVal pConnection As ADODB.Connection)
Dim CC, C, D

CC = InputBox("ENTER ID NUMBER ", "EMPLOYEE NUMBER")
C = CDate(InputBox("ENTER DATE FROM ", "START-DATE")
D = CDate(InputBox("ENTER DATE TO ", "END-DATE")
If (Len(C) <> 0 Or Len(D) <> 0), Then
Source = "DATA WHERE CODE=" & & CC & & " AND DATE >= " & & C & & " AND DATE <= " & & D & " 
Else
MsgBox ("DATA IS MANDATORY")
End If

End Sub
## Individual Analysis

### Table 4.1

<table>
<thead>
<tr>
<th>IDNo</th>
<th>Name of the Employee</th>
<th>Date</th>
<th>Time of Present</th>
<th>Late of Time(mts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0009</td>
<td>V. Ravi Kumar</td>
<td>09:11:05</td>
<td>10:15</td>
<td>15</td>
</tr>
</tbody>
</table>
### Individual Analysis for Selected Dates

**Table 4.2**

<table>
<thead>
<tr>
<th>IDNo</th>
<th>Name of the Employee</th>
<th>Date</th>
<th>Time of Present</th>
<th>Late of Time (mts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0009</td>
<td>V. Ravi Kumar</td>
<td>10:11:05</td>
<td>10:15</td>
<td>15</td>
</tr>
<tr>
<td>0009</td>
<td>V. Ravi Kumar</td>
<td>11:11:05</td>
<td>10:01</td>
<td>01</td>
</tr>
<tr>
<td>0009</td>
<td>V. Ravi Kumar</td>
<td>12:11:05</td>
<td>09:55</td>
<td>00</td>
</tr>
<tr>
<td>0009</td>
<td>V. Ravi Kumar</td>
<td>13:11:05</td>
<td>10:05</td>
<td>05</td>
</tr>
<tr>
<td>0009</td>
<td>V. Ravi Kumar</td>
<td>14:11:05</td>
<td>10:04</td>
<td>04</td>
</tr>
</tbody>
</table>

**Total**  
25

**Performance of the Employee**  
= 5 mts Late
Group Analysis Basing on Date

Table 4.3

<table>
<thead>
<tr>
<th>IDNo</th>
<th>Name of the Employee</th>
<th>Date</th>
<th>Time of Present</th>
<th>Late of Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>V.Raj Kumar</td>
<td>11/11/05</td>
<td>10:15</td>
<td>15</td>
</tr>
<tr>
<td>0002</td>
<td>K.Prasad</td>
<td>11/11/05</td>
<td>10:02</td>
<td>02</td>
</tr>
<tr>
<td>0003</td>
<td>P.Manoj Kumar</td>
<td>11/11/05</td>
<td>10:11</td>
<td>11</td>
</tr>
<tr>
<td>0004</td>
<td>N.Maruti Prasad</td>
<td>11/11/05</td>
<td>10:07</td>
<td>07</td>
</tr>
<tr>
<td>0005</td>
<td>K.Ram Kumar</td>
<td>11/11/05</td>
<td>10:15</td>
<td>15</td>
</tr>
<tr>
<td>0006</td>
<td>S.Prahalladha</td>
<td>11/11/05</td>
<td>10:04</td>
<td>04</td>
</tr>
<tr>
<td>0007</td>
<td>M.Anvesh</td>
<td>11/11/05</td>
<td>10:08</td>
<td>08</td>
</tr>
<tr>
<td>0008</td>
<td>Md.Basha</td>
<td>11/11/05</td>
<td>10:12</td>
<td>12</td>
</tr>
<tr>
<td>0009</td>
<td>V.Ravi Kumar</td>
<td>11/11/05</td>
<td>09:55</td>
<td>00</td>
</tr>
<tr>
<td>0010</td>
<td>A.Rama Rao</td>
<td>11/11/05</td>
<td>10:16</td>
<td>16</td>
</tr>
</tbody>
</table>

Total: 90

Performance of Group of Employee for 20-10-2005 = 9 mts Late