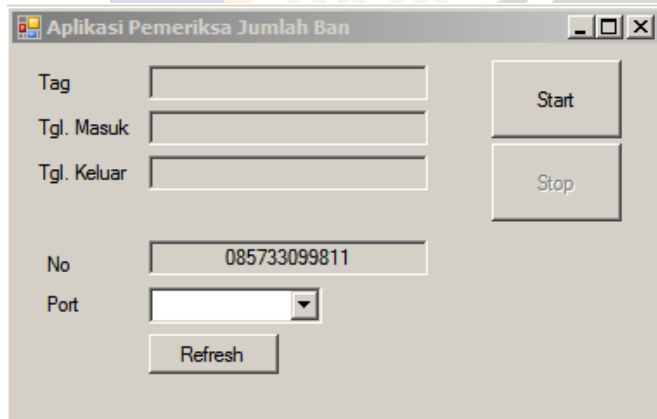


LAMPIRAN III

Program Visual



Tampilan Visual



Listing Program

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.IO.Ports;
using System.Data.OleDb;
using System.Xml.Serialization;
using System.Threading;
namespace BanSkripsi
```

```
{
    public partial class Form1 : Form
    {
        SerialPort port = new SerialPort();
        delegate void setTextCallback(string Text);
        delegate void setTCallback();
        string rxString;
        string tglMsk;
        string tglKlr;

        public Form1()
        {
            InitializeComponent();
            refreshList();
            int jumlah = hitungBarang();
            buttonStop.Enabled = false;
        }
        private void buttonStart_Click(object sender, EventArgs e)
        {
            port.BaudRate = 9600;
            port.PortName = cbPort.SelectedItem.ToString();
            port.Open();
            port.DataReceived += new
                SerialDataReceivedEventHandler(serialPort1_DataReceived);
            if (port.IsOpen)
            {
                buttonStart.Enabled = false;
                buttonStop.Enabled = true;
            }
            else
            {
                MessageBox.Show("Gagal melakukan koneksi");
            }
        }
    }
}
```

```
private void buttonStop_Click(object sender, EventArgs e)
{
    port.Close();
    buttonStart.Enabled = true;
    buttonStop.Enabled = false;
}
private void refreshList()
{
    cbPort.Items.Clear();
    foreach (string name in SerialPort.GetPortNames())
    {
        cbPort.Items.Add(name);
    }
}
private void buttonRefresh_Click(object sender, EventArgs e)
{
    refreshList();
}
private void serialPort1_DataReceived
(object sender, System.IO.Ports.SerialDataReceivedEventArgs e)
{
    rxString = "";
    char[] ok = new char[12];
    Thread.Sleep(100);
    port.Read(ok, 0, 12);
    for (int i = 0; i < 12; i++)
    {
        rxString += ok[i];
    }
    port.DiscardInBuffer();
    dataHandler(rxString);
}
```

```
    }
private void dataHandler(string data)
{
    if (data[0] == 'c' && data[1] == 'h' && data[2] == 'e' && data[3] == 'c'
    && data[4] == 'k')
    {
        int jumlah = hitungBarang();
        port.Write(jumlah+" ");
        port.DiscardOutBuffer();
        port.Close();
        port.Open();
    }
    if (data[1] == '\0' || data[0] != '2')
    {
        port.Write("error");
        port.DiscardOutBuffer();
    }
    else
    {
        int check = checkTag(data);
        if (check == 0)
        {
            char[] ok = {'0'};
            tagKeluar(data);
            setStatus("Keluar");
            setTag(data);
            setMasuk("");
            setKeluar("");
            port.Write(ok, 0, 1);
            port.DiscardOutBuffer();
        }
        else if (check == 1)
        {

```



```
}
}
private void setKeluar(string text)
{
    text = tglKlr;
    if (this.lblStatus.InvokeRequired)
    {
        setTextColor d = new setTextColor(setKeluar);
        this.Invoke(d, new object[] { text });
    }
    else
    {
        this.tbKeluar.Text = text;
    }
}
private static OleDbConnection GetConnection()
{
    OleDbConnection conn = new OleDbConnection();
    string db = "";
    try
    {
        db = @"Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=D:\Database\db_tag.mdb;Mode=ReadWrite|Share Deny None;Persist
Security Info=False";
        conn = new OleDbConnection(db);
        conn.Open();
    }
    catch (Exception ex)
    {
        Console.WriteLine(ex.Message);
    }
    return conn;
}

private void closeConn(OleDbConnection conn)
{
    try
    {
        conn.Close();
    }
    catch (Exception ex)
    {
        Console.WriteLine(ex.Message);
    }
}

private List<tag> dbFind(string tagNumber)
{
    List<tag> tagList = new List<tag>();
    DataSet ds = new DataSet();
    DataTable dt = new DataTable();
    OleDbConnection conn = GetConnection();
    OleDbDataAdapter da = new OleDbDataAdapter("SELECT * FROM
Tb_Tag where tag = " + tagNumber + "", conn);
    da.Fill(ds);
    conn.Close();
    dt = ds.Tables[0];
    foreach (DataRow item in dt.Rows)
    {
        tag ok = new tag();
        ok.Tag = item[1].ToString();
        ok.tglMasuk = item[2].ToString();
        ok.Tglkeluar = item[3].ToString();

        tagList.Add(ok);
    }
    return tagList;
}
```

```

private int dbInsert(string tagNumber)
{
    OleDbConnection conn = GetConnection();
    OleDbCommand dc = new OleDbCommand();
    DateTime date = new DateTime();
    date = DateTime.Now;
    string tglNow = date.Day + "-" + date.Month + "-" + date.Year;
    dc.Connection = conn;
    dc.CommandText = "insert into Tb_Tag (Tag, tglMasuk) values (" +
tagNumber + "," + tglNow + ")";
    dc.ExecuteNonQuery();
    conn.Close();

    return 0; //success
}

private int tagKeluar(string tagNumber)
{
    OleDbConnection conn = GetConnection();
    OleDbCommand dc = new OleDbCommand();
    DateTime date = new DateTime();
    date = DateTime.Now;
    string tglNow = date.Day + "-" + date.Month + "-" + date.Year;
    dc.Connection = conn;
    dc.CommandText = "Update tb_tag set Tglkeluar = " + tglNow + "
where tag = " + tagNumber + """;
    dc.ExecuteNonQuery();
    conn.Close();
    return 0;
}

private int checkTag(string tagNumber)
{
    DateTime date = new DateTime();
    date = DateTime.Now;
    string tglNow = date.Day + "-" + date.Month + "-" + date.Year;
    // Tag ada belum keluar      = 0
    // Tag ada sudah keluar      = 1
    // Tidak ada                  = 2
    List<tag> tagList = dbFind(tagNumber);
    List<tag> tmpList = new List<tag>();
    var check = from i in tagList where i.Tglkeluar == "" select i;
    foreach (var item in check)
    {
        tmpList.Add(item);
    }
    if (tmpList.Count > 0)
    {
        tglMsk = tmpList[tmpList.Count-1].tglMasuk;
        tglKlr = tglNow;
        return 0;
    }
    check = from i in tagList select i;
    tmpList.Clear();
    foreach (var item in check)
    {
        tmpList.Add(item);
    }
    if (tmpList.Count != 0)
    {
        tglMsk = tglNow;
        tglKlr = "-";
        return 1;
    }
    tglMsk = "";
    tglKlr = "";
}

```

```
        return 2;
    }
}
private int hitungBarang()
{
    List<tag> tagList = new List<tag>();

    DataSet ds = new DataSet();
    DataTable dt = new DataTable();
    OleDbConnection conn = GetConnection();
    OleDbDataAdapter da = new OleDbDataAdapter("SELECT * FROM
Tb_Tag", conn);

    da.Fill(ds);
    conn.Close();
    dt = ds.Tables[0];
    foreach (DataRow item in dt.Rows)
    {
        tag ok = new tag();
        ok.Tag = item[1].ToString();
        ok.tglMasuk = item[2].ToString();
        ok.Tglkeluar = item[3].ToString();

        tagList.Add(ok);
    }

    List<tag> tmpList = new List<tag>();
    var check = from i in tagList where i.Tglkeluar == "" select i;
    foreach (var item in check)
    {
        tmpList.Add(item);
    }

    return tmpList.Count;
}
```



