

```
1  using System;
2
3  using System.Collections.Generic;
4  using System.ComponentModel;
5  using System.Data;
6  using System.Drawing;
7  using System.Linq;
8  using System.Text;
9  using System.Threading.Tasks;
10 using System.Windows.Forms;
11 using System.IO;
12
13
14 namespace OMR_SHEETS
15 {
16     public partial class Form1 : Form
17     {
18         public string ans;
19         public int[] original_answer = new int[51];
20
21
22     public Form1()
23     {
24
25         InitializeComponent();
26         textBox2.Text = "IIT 6th Batch, Jahangirnagar University";
27         textBox1.Text = "-OMR SHEET READER- ";
28         textBox3.Text = "GROUP N (1709,1710,1712,2104)";
29
30     }
31
32     private void richTextBox1_TextChanged(object sender, EventArgs e)
33     {
34
35     }
36
37     private void Form1_Load(object sender, EventArgs e)
38     {
39
40     }
41     private void button2_Click(object sender, EventArgs e)
42     {
43
44     }
45
46     private void button1_Click(object sender, EventArgs e)
47     {
48         //select the folder
49
50         string dx = "C:\\\\Users\\\\R\\\\Documents\\\\OMR_Result.txt";
51
52         StreamWriter writing = new StreamWriter(dx);
53
54
55
56
57
58         //Text Works
59
60
61
62
63
64         //
65
66
67
68
69
70         FolderBrowserDialog FBD = new FolderBrowserDialog();
71         if (FBD.ShowDialog() == DialogResult.OK)
72         {
73             string[] files = Directory.GetFiles(FBD.SelectedPath);
```

```

74     string[] dirs = Directory.GetDirectories(FBD.SelectedPath);
75
76
77
78     foreach (string file in files)
79     {
80
81
82
83
84
85
86         Bitmap img = new Bitmap(file);
87
88
89
90
91         int[] answers = new int[51];
92         int i, j;
93         for (i = 0; i < 51; i++) answers[i] = 88;
94
95         //A-B gape =58 , (B-C && C-D gape) = 48
96         //two row gape = 77
97         //1 started from 358,1058
98         //26 started from 1455,1056
99         //25,50 ends at 2950
100        //D ends at 1157(1____) , 2257(2____)
101
102        int counter = 0;
103        for (i = 1058; i < 2950; i += 77)
104        {
105            for (j = 358; j < 1157; j++)
106            {
107
108                Color pixel = img.GetPixel(j, i);
109
110                if (pixel.R < 100 && pixel.G < 100 && pixel.B < 100)
111                {
112                    Console.WriteLine(i + " " + j + " ");
113                    int question_number = ((i - 1058) / 76) + 1;
114                    int ANS = 88;
115                    if (j < 385) ANS = 65;
116                    else if (j < 643) ANS = 66;
117                    else if (j < 884) ANS = 67;
118                    else if (j < 1128) ANS = 68;
119                    answers[question_number] = ANS;
120                    counter++;
121                    break;
122
123                }
124            }
125
126
127        }
128
129
130
131
132        int counter2 = 0;
133        for (i = 1056; i < 2950; i += 77)
134        {
135            for (j = 1455; j < 2250; j++)
136            {
137                Color pixel = img.GetPixel(j, i);
138                if (pixel.R < 100 && pixel.G < 100 && pixel.B < 100)
139                {
140                    Console.WriteLine(i + " " + j + " ");
141                    int question_number = ((i - 1056) / 76) + 26;
142                    int ANS = 88;
143                    if (j < 1480) ANS = 65;
144                    else if (j < 1740) ANS = 66;
145                    else if (j < 1980) ANS = 67;
146                    else if (j < 2230) ANS = 68;

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147
148         answers[question_number] = ANS;
149         counter2++;
150         break;
151     }
152 }
153 }
154 }
155
156
157
158     counter += counter2;
159
160     int ac = 0;
161     int wa = 0;
162     int unans = 0;
163
164
165
166     String x = "\n";
167     for (i = 1; i < 51; i++)
168     {
169
170         int zz = i;
171
172         if (answers[zz] == 88) unans++;
173         else
174         {
175             answers[zz] -= (48 + 16);
176             if (answers[zz] == original_answer[zz]) ac++;
177             else wa++;
178         }
179
180         //    x = x + (i.ToString() + "----" +
181         Convert.ToChar(answers[i]) + "    ");
182         //    if ((i % 5) == 0) x = x + "\n\n";
183     }
184     // textBox2.Text = counter.ToString() + " " + "ANSWERED";
185
186     string Roll = Path.GetFileName(file);
187     Roll = Roll.Substring(0, Roll.Length - 4);
188     String msg = "Correct" + ac.ToString() + " Wrong " +
189     wa.ToString() + "Not answered" + unans.ToString();
190
191     double totals = ac - wa*.25;
192     if (totals < 0) totals = 0;
193     string ttls = totals.ToString();
194     if(ttls.Length>4) ttls = ttls.Substring(0, 4);
195
196     writing.WriteLine("Roll: " + Roll.ToString() + " Total Mark:
197     "+ttls.ToString() + " Correct: " + ac.ToString() + "
198     Wrong: " + wa.ToString() + " Unanswered: " + unans.ToString());
199
200     //    MessageBox.Show(Roll +msg, "Answered");
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
}

```

```
216  
217  
218     }  
219  
220     string p = "C:\\\\Users\\\\R\\\\Pictures\\\\f.jpg";  
221     pictureBox1.SizeMode = PictureBoxSizeMode.StretchImage;  
222     pictureBox1.ImageLocation = p;  
223  
224     writing.Close();  
225  
226  
227  
228  
229 }  
230  
231 private void button2_Click_1(object sender, EventArgs e)  
{  
    // read from string  
235     OpenFileDialog of = new OpenFileDialog();  
236     of.ShowDialog();  
237     textBox4.Text = of.FileName;  
238  
239  
240 }  
241  
242  
243 private void button3_Click(object sender, EventArgs e)  
{  
}  
247  
248 private void richTextBox2_TextChanged(object sender, EventArgs e)  
{  
}  
251  
252  
253 private void button3_Click_1(object sender, EventArgs e)  
{  
}  
255  
256  
257  
258 private void textBox4_TextChanged(object sender, EventArgs e)  
{  
}  
261  
262  
263 private void textBox5_TextChanged(object sender, EventArgs e)  
{  
}  
265  
266  
267  
268 private void textBox3_TextChanged(object sender, EventArgs e)  
{  
}  
271  
272  
273 private void textBox2_TextChanged(object sender, EventArgs e)  
{  
}  
275  
276  
277  
278 private void textBox1_TextChanged(object sender, EventArgs e)  
{  
}  
281  
282  
283 private void textBox4_TextChanged_1(object sender, EventArgs e)  
{  
    StreamReader sr = new StreamReader(textBox4.Text);  
    ans = richTextBox2.Text = sr.ReadToEnd();  
    sr.Close();  
    // Console.WriteLine(ans);
```

```
289
290     for (int it= 0; it < ans.Length; it++)
291     {
292         original_answer[it] = (int)ans[it]-('0'+16);
293         // Console.WriteLine(answer[it]);
294     }
295
296
297
298
299
300 }
301
302 private void pictureBox1_Click(object sender, EventArgs e)
303 {
304 }
305
306
307 private void pictureBox1_Click_1(object sender, EventArgs e)
308 {
309 }
310
311 }
312
313 }
```