

```
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
42         private void button2_Click(object sender, EventArgs e)
43         {
44
45         }
46
47         private void button1_Click(object sender, EventArgs e)
48         {
49             //secect the folder
50
51             string dx = "C:\\Users\\R\\Documents\\OMR_Result.txt";
52
53             StreamWriter writing = new StreamWriter(dx);
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
171     int zz = i;
172
173     if (answers[zz] == 88) unans++;
174     else
175     {
176         answers[zz] -= (48 + 16);
177         if (answers[zz] == original_answer[zz]) ac++;
178         else wa++;
179     }
180
181     // x = x + (i.ToString() + "---" +
182     Convert.ToChar(answers[i]) + " ");
183     // if ((i % 5) == 0) x = x + "\n\n";
184 }
185 // textBox2.Text = counter.ToString() + " " + "ANSWERED";
186
187 string Roll = Path.GetFileName(file);
188 Roll = Roll.Substring(0, Roll.Length - 4);
189 String msg = "Correct" + ac.ToString() + " Wrong " +
190 wa.ToString() + "Not answered" + unans.ToString();
191
192
193 double totals = ac - wa*.25;
194 if (totals < 0) totals = 0;
195 string ttls = totals.ToString();
196 if (ttls.Length > 4) ttls = ttls.Substring(0, 4);
197
198 writing.WriteLine("Roll: " + Roll.ToString() + " Total Mark:
199 "+ttls.ToString() + " Correct: " + ac.ToString() + "
200 Wrong: " + wa.ToString() + " Unanswered: " + unans.ToString());
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)
232 {
233     // read from string
234
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)
244 {
245
246 }
247
248 private void richTextBox2_TextChanged(object sender, EventArgs e)
249 {
250
251 }
252
253 private void button3_Click_1(object sender, EventArgs e)
254 {
255
256 }
257
258 private void textBox4_TextChanged(object sender, EventArgs e)
259 {
260
261 }
262
263 private void textBox5_TextChanged(object sender, EventArgs e)
264 {
265
266 }
267
268 private void textBox3_TextChanged(object sender, EventArgs e)
269 {
270
271 }
272
273 private void textBox2_TextChanged(object sender, EventArgs e)
274 {
275
276 }
277
278 private void textBox1_TextChanged(object sender, EventArgs e)
279 {
280
281 }
282
283 private void textBox4_TextChanged_1(object sender, EventArgs e)
284 {
285     StreamReader sr = new StreamReader(textBox4.Text);
286     ans = richTextBox2.Text = sr.ReadToEnd();
287     sr.Close();
288     // 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
```