

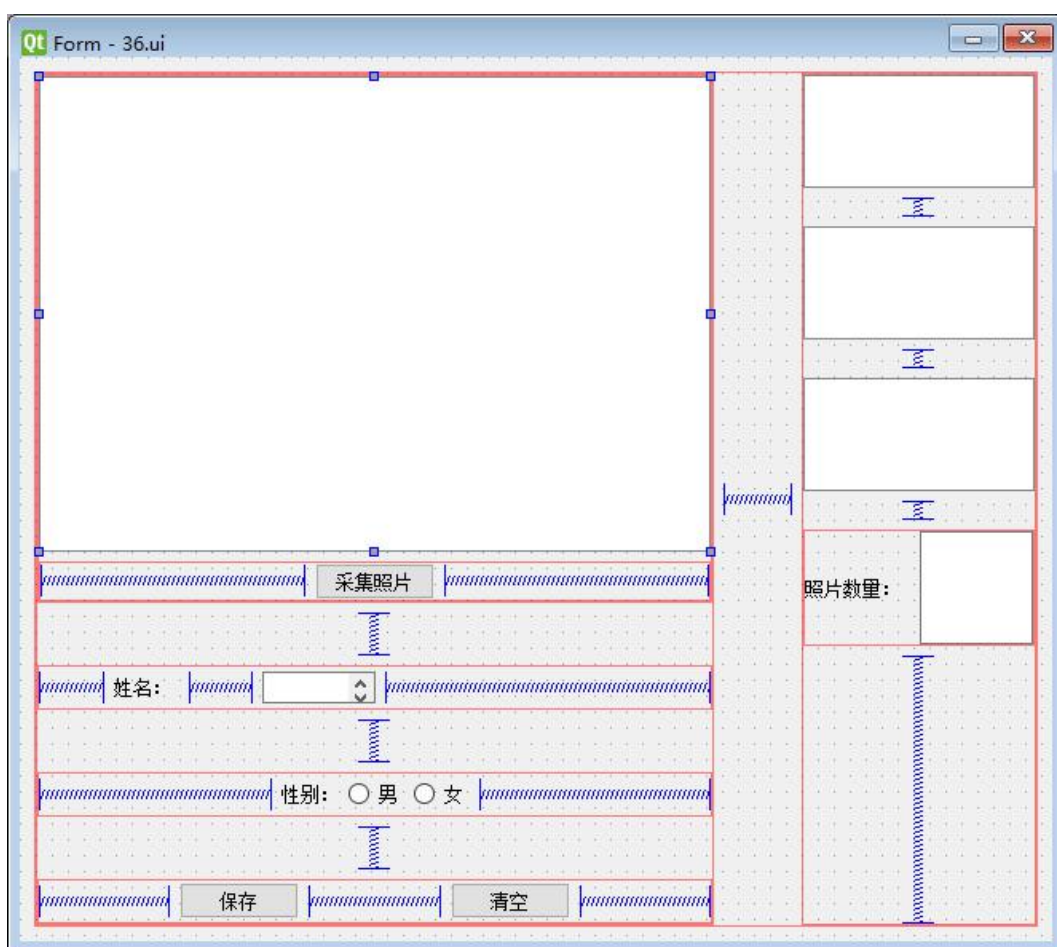
第五次上机作业

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一、作业 36：利用 pyqt 编写简单界面：

1.1 代码



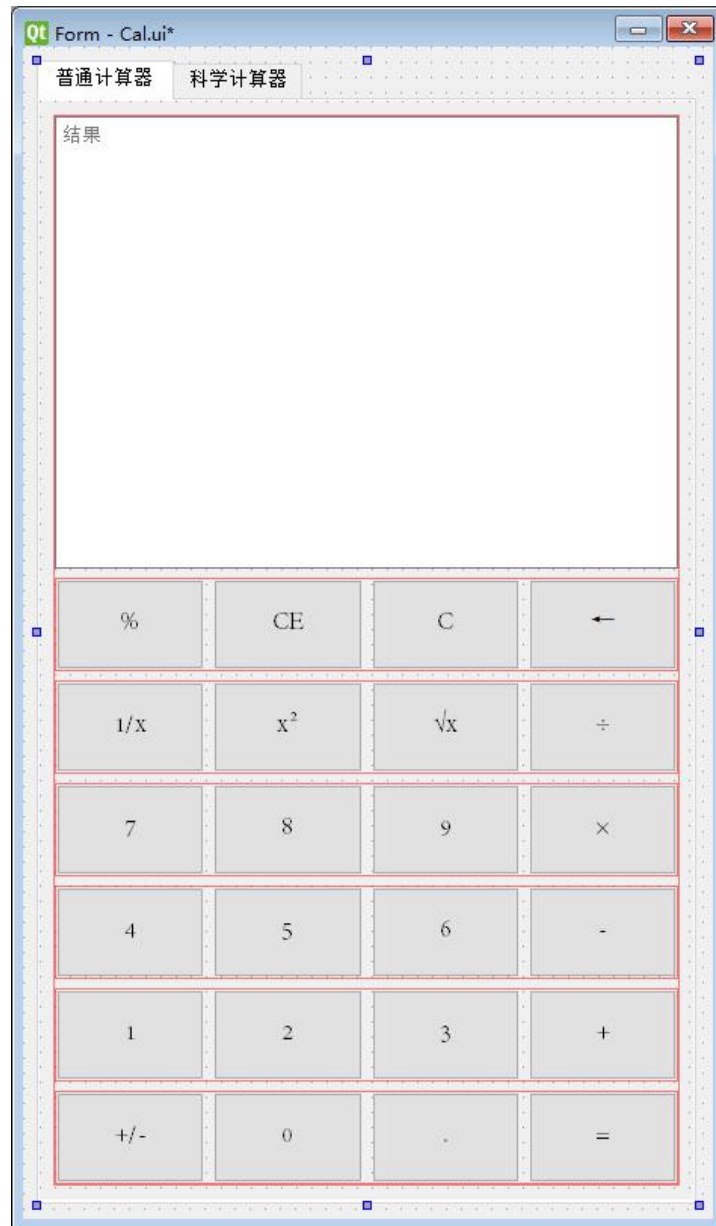
1.2 结果

The image shows a Qt Designer window titled "Form - [Preview] - Qt Designer". The window contains a form layout with the following elements:

- A large empty rectangular area on the left side, likely for a photo preview.
- A vertical stack of three empty rectangular boxes on the right side, likely for photo thumbnails.
- A label "照片数量:" (Photo Count) next to a small empty rectangular box.
- A button labeled "采集照片" (Collect Photo) located below the large preview area.
- A label "姓名:" (Name) next to a small empty rectangular box with a dropdown arrow.
- A label "性别:" (Gender) followed by two radio buttons labeled "男" (Male) and "女" (Female).
- Two buttons at the bottom: "保存" (Save) and "清空" (Clear).

二、作业 37：利用 pyqt 编写简单界面的计算器：

2.1 代码



```
1. from PyQt5.QtWidgets import QApplication, QMessageBox
2. from PyQt5 import uic
3.
4. class Stats:
5.
6.     def __init__(self):
7.         self.ui = uic.loadUi('Cal.ui')
8.         self.info = ''
9.
10.        self.ui.pushButton_C.clicked.connect(self.push_C)
```

```
11.         self.ui.pushButton_CE.clicked.connect(self.push_C)
12.
13.         self.ui.pushButton_1.clicked.connect(self.push_1)
14.         self.ui.pushButton_2.clicked.connect(self.push_2)
15.         self.ui.pushButton_3.clicked.connect(self.push_3)
16.         self.ui.pushButton_4.clicked.connect(self.push_4)
17.         self.ui.pushButton_5.clicked.connect(self.push_5)
18.         self.ui.pushButton_6.clicked.connect(self.push_6)
19.         self.ui.pushButton_7.clicked.connect(self.push_7)
20.         self.ui.pushButton_8.clicked.connect(self.push_8)
21.         self.ui.pushButton_9.clicked.connect(self.push_9)
22.         self.ui.pushButton_0.clicked.connect(self.push_0)
23.
24.         self.ui.pushButton_Plus.clicked.connect(self.push_Plus)
25.         self.ui.pushButton_Reduce.clicked.connect(self.push_Reduce)
26.         self.ui.pushButton_Multiply.clicked.connect(self.push_Multiply)
27.         self.ui.pushButton_Divide.clicked.connect(self.push_Divide)
28.         self.ui.pushButton_Modulus.clicked.connect(self.push_Modulus)
29.
30.         self.ui.pushButton_div_x.clicked.connect(self.push_div_x)
31.         self.ui.pushButton_Square.clicked.connect(self.push_Square)
32.         self.ui.pushButton_Sqrt.clicked.connect(self.push_Sqrt)
33.
34.         self.ui.pushButton_Del.clicked.connect(self.push_Del)
35.         self.ui.pushButton_Minus.clicked.connect(self.push_Minus)
36.         self.ui.pushButton_Point.clicked.connect(self.push_Point)
37.         self.ui.pushButton_Equal.clicked.connect(self.push_Equal)
38.
39. #####
40.         self.ui.pushButton_Cal.clicked.connect(self.push_Cal)
41.
42.
43.
44.     def push_C(self):
45.         self.ui.textBrowser_Cal.clear()
46.         self.info = ''
47. #####数字按钮
48.     def push_1(self):
49.         self.ui.textBrowser_Cal.insertPlainText('1')
50.         self.info = self.info+'1'
51.     def push_2(self):
52.         self.ui.textBrowser_Cal.insertPlainText('2')
53.         self.info = self.info + '2'
54.     def push_3(self):
55.         self.ui.textBrowser_Cal.insertPlainText('3')
```

```
56.         self.info = self.info + '3'
57.     def push_4(self):
58.         self.ui.textBrowser_Cal.insertPlainText('4')
59.         self.info = self.info + '4'
60.     def push_5(self):
61.         self.ui.textBrowser_Cal.insertPlainText('5')
62.         self.info = self.info + '5'
63.     def push_6(self):
64.         self.ui.textBrowser_Cal.insertPlainText('6')
65.         self.info = self.info + '6'
66.     def push_7(self):
67.         self.ui.textBrowser_Cal.insertPlainText('7')
68.         self.info = self.info + '7'
69.     def push_8(self):
70.         self.ui.textBrowser_Cal.insertPlainText('8')
71.         self.info = self.info + '8'
72.     def push_9(self):
73.         self.ui.textBrowser_Cal.insertPlainText('9')
74.         self.info = self.info + '9'
75.     def push_0(self):
76.         self.ui.textBrowser_Cal.insertPlainText('0')
77.         self.info = self.info + '0'
78. #####加减乘除 取余
79.     def push_Plus(self):
80.         self.ui.textBrowser_Cal.insertPlainText('+')
81.         self.info = self.info + '+'
82.     def push_Reduce(self):
83.         self.ui.textBrowser_Cal.insertPlainText('-')
84.         self.info = self.info + '-'
85.     def push_Multiply(self):
86.         self.ui.textBrowser_Cal.insertPlainText('x')
87.         self.info = self.info + '*'
88.     def push_Divide(self):
89.         self.ui.textBrowser_Cal.insertPlainText('÷')
90.         self.info = self.info + '/'
91.     def push_Modulus(self):
92.         self.ui.textBrowser_Cal.insertPlainText('%')
93.         self.info = self.info + '%'
94.
95. #####倒数 平方 开根号
96.     def push_div_x(self):
97.         self.info = eval(self.info)
98.         self.info = str(1.0 / self.info)
99.         self.ui.textBrowser_Cal.insertPlainText('\n')
100.         self.ui.textBrowser_Cal.insertPlainText(self.info)
```

```
101.         self.ui.textBrowser_Cal.moveCursor(self.ui.textBrowser_Cal.textCursor().End)

102.     def push_Square(self):
103.         self.info = eval(self.info)
104.         self.info = str(self.info ** 2)
105.         self.ui.textBrowser_Cal.insertPlainText('\n')
106.         self.ui.textBrowser_Cal.insertPlainText(self.info)
107.         self.ui.textBrowser_Cal.moveCursor(self.ui.textBrowser_Cal.textCursor().End)

108.     def push_Sqrt(self):
109.         self.info = eval(self.info)
110.         self.info = str(self.info ** 0.5)
111.         self.ui.textBrowser_Cal.insertPlainText('\n')
112.         self.ui.textBrowser_Cal.insertPlainText(self.info)
113.         self.ui.textBrowser_Cal.moveCursor(self.ui.textBrowser_Cal.textCursor().End)

114.
115.
116.
117.     def push_Del(self):
118.         if (len(self.info)>0):
119.             self.ui.textBrowser_Cal.insertPlainText('\n')
120.             self.info = self.info[:-1]
121.             self.ui.textBrowser_Cal.insertPlainText(self.info)
122.
123.     def push_Minus(self):
124.         self.info = str(-eval(self.info))
125.         self.ui.textBrowser_Cal.insertPlainText('\n')
126.         self.ui.textBrowser_Cal.insertPlainText(self.info)
127.         self.ui.textBrowser_Cal.moveCursor(self.ui.textBrowser_Cal.textCursor().End)

128.     def push_Point(self):
129.         self.ui.textBrowser_Cal.insertPlainText('.')
130.         self.info = self.info + '.'
131.     def push_Equal(self):
132.         self.info = str(eval(self.info))
133.         self.ui.textBrowser_Cal.insertPlainText('\n')
134.         self.ui.textBrowser_Cal.insertPlainText(self.info)
135.         self.ui.textBrowser_Cal.moveCursor(self.ui.textBrowser_Cal.textCursor().End)

136.         self.ui.textBrowser_Cal.ensureCursorVisible()
137.
138.     def push_Cal(self):
139.         info = self.ui.plainTextEdit.toPlainText()
140.         info = str(eval(info))
```

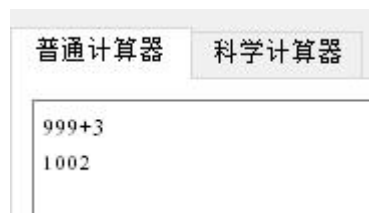
```

141.         self.ui.textBrowser_Sci.insertPlainText(info)
142.         self.ui.textBrowser_Sci.insertPlainText('\n')
143.
144. app = QApplication([])
145. stats = Stats()
146. stats.ui.show()
147. app.exec_()

```

2.2 结果

2.2.1 加



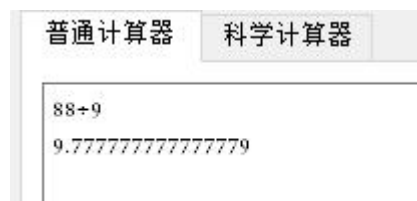
2.2.2 减



2.2.3 乘



2.2.4 除



2.2.5 平方



2.2.6 开方

