

Python Viva

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Aim: Develop a gui of registration form using pyqt5
Registration detail are name, roll no. , age, gender.

Code:

PyQT5 Student Registraion Form(Gui).py

```
import sys
from PyQt5.QtWidgets import QDialog, QApplication
from GUI import Ui_Form

class AppWindow(QDialog):
    def __init__(self):
        super().__init__()
        self.ui = Ui_Form()
        self.ui.setupUi(self)
        self.show()

app = QApplication(sys.argv)
w = AppWindow()
w.show()
sys.exit(app.exec_())
```

GUI.py

```
from PyQt5 import QtCore, QtGui, QtWidgets

class Ui_Form(object):
    def setupUi(self, Form):
        Form.setObjectName("Form")
        Form.resize(465, 432)
        self.label = QtWidgets.QLabel(Form)
        self.label.setEnabled(True)
        self.label.setGeometry(QtCore.QRect(140, 20, 201, 21))
        sizePolicy = QtWidgets.QSizePolicy(QtWidgets.QSizePolicy.Preferred,
QtWidgets.QSizePolicy.Preferred)
        sizePolicy.setHorizontalStretch(6)
        sizePolicy.setVerticalStretch(6)

        sizePolicy.setHeightForWidth(self.label.sizePolicy().hasHeightForWidth())
        self.label.setSizePolicy(sizePolicy)
        font = QtGui.QFont()
        font.setFamily("Arial")
        font.setPointSize(18)
```

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font.setBold(True)
font.setWeight(75)
self.label.setFont(font)
self.label.setObjectName("label")
self.label_2 = QtWidgets.QLabel(Form)
self.label_2.setGeometry(QtCore.QRect(20, 70, 101, 16))
font = QtGui.QFont()
font.setFamily("Arial")
font.setPointSize(14)
self.label_2.setFont(font)
self.label_2.setObjectName("label_2")
self.lineEdit = QtWidgets.QLineEdit(Form)
self.lineEdit.setGeometry(QtCore.QRect(140, 70, 161, 21))
self.lineEdit.setObjectName("lineEdit")
self.lineEdit_2 = QtWidgets.QLineEdit(Form)
self.lineEdit_2.setGeometry(QtCore.QRect(140, 110, 161, 21))
self.lineEdit_2.setObjectName("lineEdit_2")
self.label_3 = QtWidgets.QLabel(Form)
self.label_3.setGeometry(QtCore.QRect(20, 100, 61, 31))
#New
self.label_6 = QtWidgets.QLabel(Form)
self.label_6.setGeometry(QtCore.QRect(20, 375.5, 81, 31))
#New
font = QtGui.QFont()
font.setFamily("Arial")
font.setPointSize(14)
self.label_3.setFont(font)
self.label_3.setObjectName("label_3")
self.label_4 = QtWidgets.QLabel(Form)
self.label_4.setGeometry(QtCore.QRect(20, 140, 101, 31))
font = QtGui.QFont()
font.setFamily("Arial")
font.setPointSize(14)
self.label_4.setFont(font)
self.label_4.setObjectName("label_4")
#New Roll No.
self.label_6.setFont(font)
self.label_6.setObjectName("label_6")
self.label_6 = QtWidgets.QLabel(Form)
self.label_6.setGeometry(QtCore.QRect(20, 375.5, 81, 31)) # middle 61
change
font = QtGui.QFont()
font.setFamily("Arial")
font.setPointSize(14)
self.label_6.setFont(font)
self.label_6.setObjectName("label_6")
#new
self.checkBox = QtWidgets.QCheckBox(Form)
self.checkBox.setGeometry(QtCore.QRect(140, 150, 70, 17))
self.checkBox.setObjectName("checkBox")
self.checkBox_2 = QtWidgets.QCheckBox(Form)
self.checkBox_2.setGeometry(QtCore.QRect(230, 150, 70, 17))
self.checkBox_2.setObjectName("checkBox_2")
#new
self.checkBox_6 = QtWidgets.QCheckBox(Form)
self.checkBox_6.setGeometry(QtCore.QRect(230, 375.5, 81, 31))

```

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self.checkBox_6.setObjectName("checkBox_6")
#new
self.label_5 = QtWidgets.QLabel(Form)
self.label_5.setGeometry(QtCore.QRect(20, 190, 121, 16))
font = QtGui.QFont()
font.setFamily("Arial")
font.setPointSize(14)
self.label_5.setFont(font)
self.label_5.setObjectName("label_5")
self.calendarWidget = QtWidgets.QCalendarWidget(Form)
self.calendarWidget.setGeometry(QtCore.QRect(140, 180, 256, 183))
self.calendarWidget.setObjectName("calendarWidget")
self.pushButton = QtWidgets.QPushButton(Form)
self.pushButton.setGeometry(QtCore.QRect(170, 420, 91, 31))
self.pushButton1 = QtWidgets.QPushButton(Form)
self.pushButton1.setGeometry(QtCore.QRect(170, 470, 91, 31))

font = QtGui.QFont()
font.setFamily("Arial")
font.setPointSize(14)
self.pushButton.setFont(font)
self.pushButton.setObjectName("PushButton")
self.pushButton1.setFont(font)
self.pushButton1.setObjectName("Delete")

self.retranslateUi(Form)
QtCore.QMetaObject.connectSlotsByName(Form)

def retranslateUi(self, Form):
    _translate = QtCore.QCoreApplication.translate
    Form.setWindowTitle(_translate("Form", "Form"))
    self.label.setText(_translate("Form", "Student Details"))
    self.label_2.setText(_translate("Form", "Enter Name "))
    self.label_3.setText(_translate("Form", "Age "))
    self.label_4.setText(_translate("Form", "Gender "))
    self.checkBox.setText(_translate("Form", "Male"))
    self.checkBox_2.setText(_translate("Form", "Female"))
    self.label_6.setText(_translate("Form", "Roll No. "))
    self.label_5.setText(_translate("Form", "Date of Birth"))
    #new
    #self.label_6.setText(_translate("Form", "Roll No. "))
    #new
    self.pushButton.setText(_translate("Form", "Submit"))
    self.pushButton1.setText(_translate("Form", "Delete"))

```

Output:

Form

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Student Detail

Enter Name

Age

Gender ☐ Male ☐ Female

Date of Birth

May, 2021

Tue	Wed	Thu	Fri	Sat
27	28	29	30	1
4	5	6	7	8
11	12	13	14	15
18	19	20	21	22

Roll No.