

2022년 IoT기반 스마트 솔루션 개발자 양성과정



# Programming : Python

## 5-Widget Event Handle

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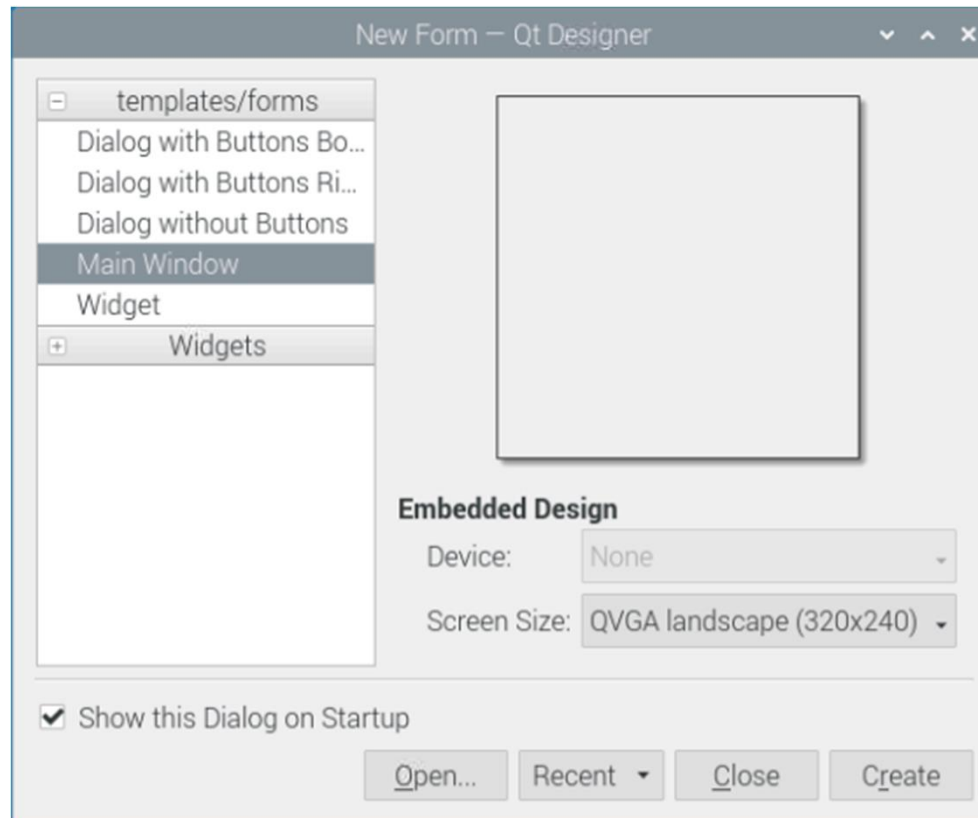
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<https://cafe.naver.com/yoons2022>



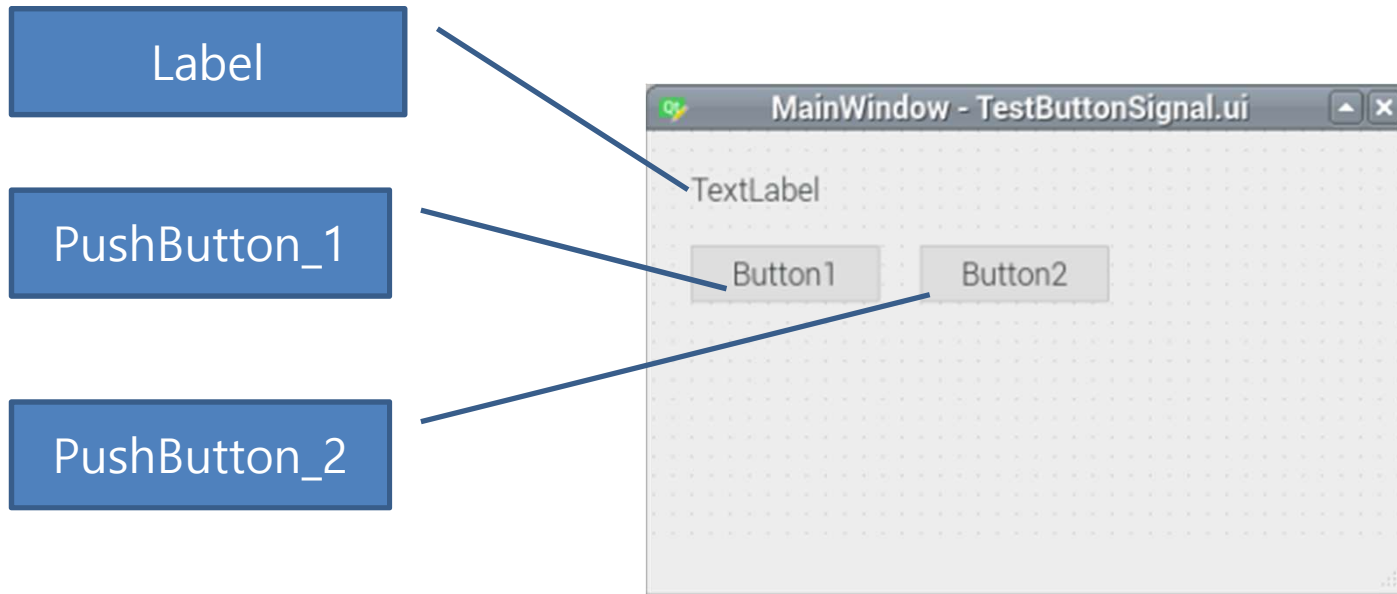
충북대학교 공동훈련센터

# New Form –Qt Designer

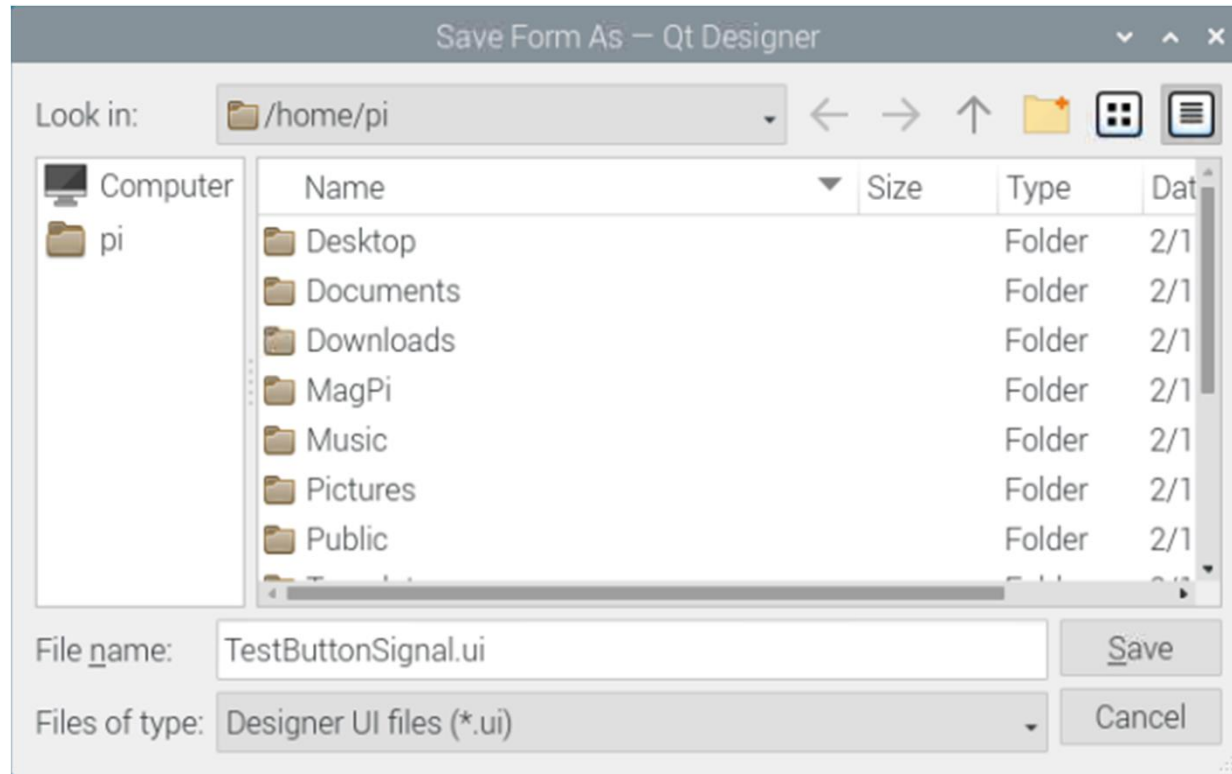


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# Qt Designer - TestButtonSignal



# Save as –TestButtonSignal.ui

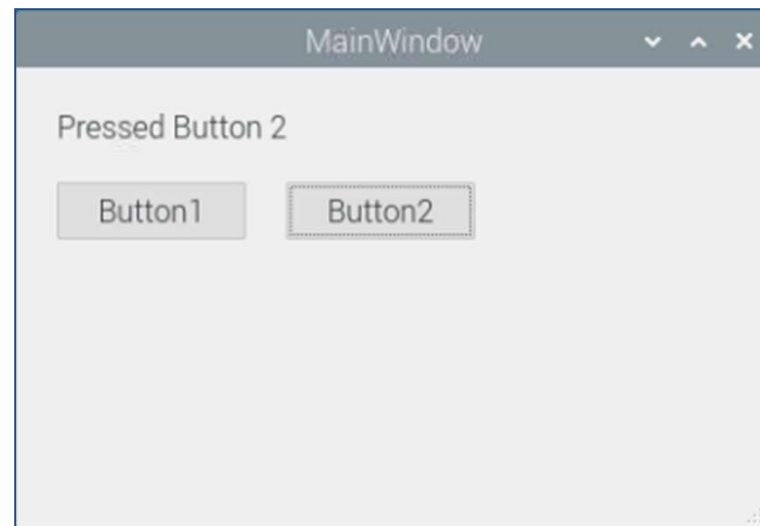


# Thonny - TestButtonSignal

```
1 import sys
2 import PyQt5
3 from PyQt5.QtGui import *
4 from PyQt5.QtCore import *
5 from PyQt5.QtWidgets import *
6 from PyQt5 import uic
7
8 uiForm='TestButtonSignal.ui'
9
10 class MyWindow(QMainWindow):
11     def __init__(self):
12         QMainWindow.__init__(self, None)
13         uic.loadUi(uiForm, self)
14
15         self.pushButton_1.clicked.connect(self.buttonClick_1)
16         self.pushButton_2.clicked.connect(self.buttonClick_2)
17
18     def buttonClick_1(self):
19         self.label.setText("Pressed Button 1")
20
21     def buttonClick_2(self):
22         self.label.setText("Pressed Button 2")
23
24 if __name__ == '__main__':
25     app=QApplication(sys.argv)
26     form=MyWindow()
27     form.show()
28     app.exec()
```



# Run



# Make Password KeyPad

Password KeyPad

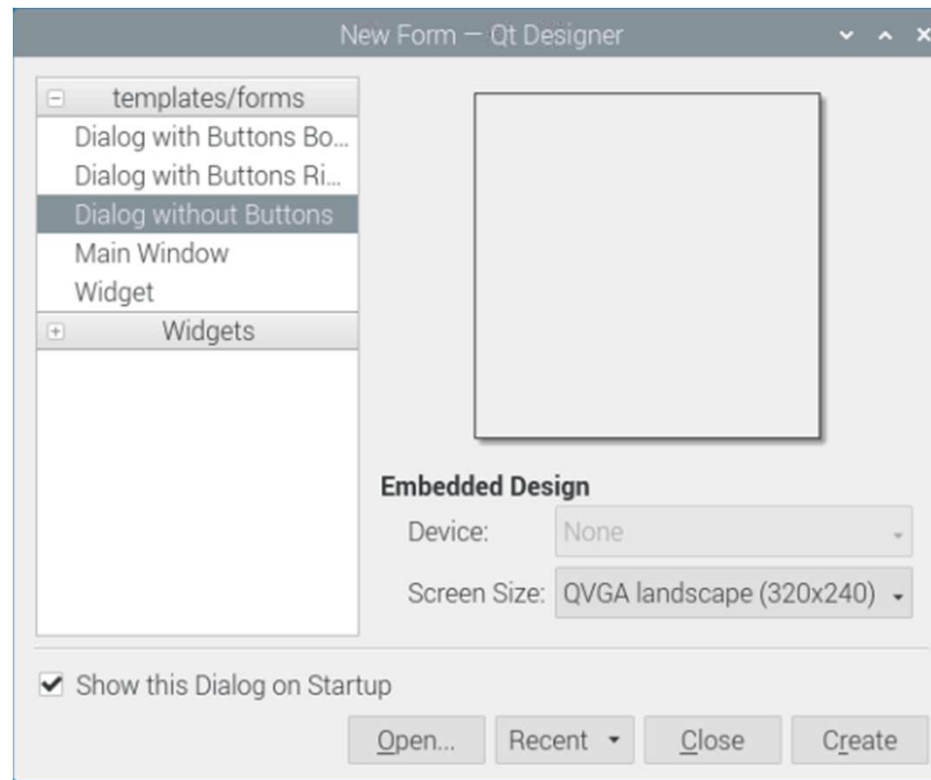
●●●●

1	2	3
4	5	6
7	8	9
CLR	0	BS

Submit



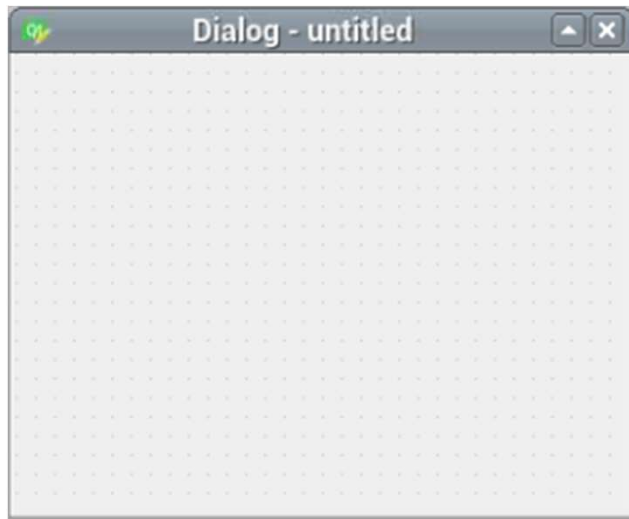
# New Form – Qt Designer



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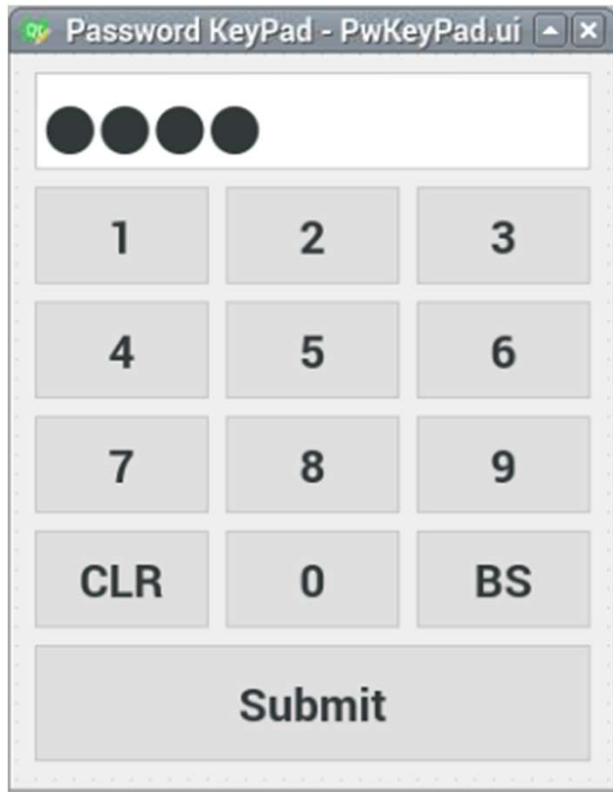
# Dialog



Property	Value
objectName	Dialog
windowTitle	Password keyPad



# UI Design



## LineEdit

objectName	lineEdit
Font	[PibotoLt,25],Bold
echoMode	Password

## pushButton\_1 ~9,0

objectName	pushButton_1~9,0
------------	------------------

## pushButton\_CLR,BS

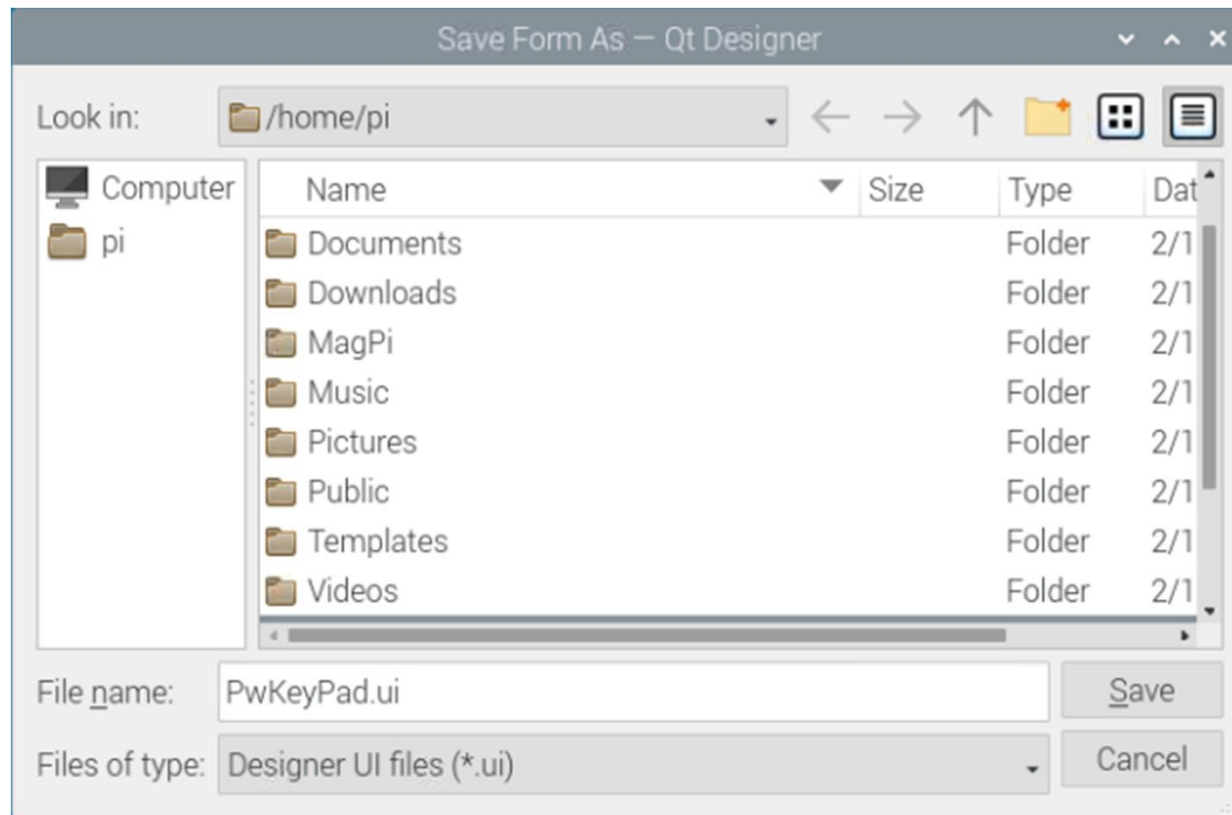
objectName	pushButton_CLR,BS
------------	-------------------

## pushButton\_Submit

objectName	pushButton_Submit
------------	-------------------



# Save as –PwKeyPad.ui



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# Define & Class MyDialog

```
import sys
import PyQt5
from PyQt5.QtGui import *
from PyQt5.QtCore import *
from PyQt5.QtWidgets import *
from PyQt5 import uic

uiDialog='PwKeyPad.ui'

class MyDialog(QDialog):
```

```
    def __init__(self):
        QDialog.__init__(self, None)
        uic.loadUi(uiDialog, self)

        self.pushButton_1.clicked.connect(self.buttonClick_1)
        self.pushButton_2.clicked.connect(self.buttonClick_2)
        self.pushButton_3.clicked.connect(self.buttonClick_3)
        self.pushButton_4.clicked.connect(self.buttonClick_4)
        self.pushButton_5.clicked.connect(self.buttonClick_5)
        self.pushButton_6.clicked.connect(self.buttonClick_6)
        self.pushButton_7.clicked.connect(self.buttonClick_7)
        self.pushButton_8.clicked.connect(self.buttonClick_8)
        self.pushButton_9.clicked.connect(self.buttonClick_9)
        self.pushButton_0.clicked.connect(self.buttonClick_0)
        self.pushButton_BS.clicked.connect(self.buttonClick_BS)
        self.pushButton_CLR.clicked.connect(self.buttonClick_CLR)
        self.pushButton_Submit.clicked.connect(self.buttonClick_Submit)

        self.msg = QMessageBox()
```



# Define buttonClick

```
def buttonClick_1(self):
    self.lineEdit.setText(self.lineEdit.text() + '1')
def buttonClick_2(self):
    self.lineEdit.setText(self.lineEdit.text() + '2')
def buttonClick_3(self):
    self.lineEdit.setText(self.lineEdit.text() + '3')
def buttonClick_4(self):
    self.lineEdit.setText(self.lineEdit.text() + '4')
def buttonClick_5(self):
    self.lineEdit.setText(self.lineEdit.text() + '5')
def buttonClick_6(self):
    self.lineEdit.setText(self.lineEdit.text() + '6')
def buttonClick_7(self):
    self.lineEdit.setText(self.lineEdit.text() + '7')
def buttonClick_8(self):
    self.lineEdit.setText(self.lineEdit.text() + '8')
def buttonClick_9(self):
    self.lineEdit.setText(self.lineEdit.text() + '9')
def buttonClick_0(self):
    self.lineEdit.setText(self.lineEdit.text() + '0')
```

```
def buttonClick_BS(self):
    self.lineEdit.setFocus()
    self.lineEdit.backspace()
    #print(self.lineEdit.text())
def buttonClick_CLR(self):
    self.lineEdit.setText("")
def buttonClick_Submit(self):
    pw=self.lineEdit.text()
    self.lineEdit.setText("")

    self.msg.setWindowTitle('Welcome')
    if pw=='1234':
        self.msg.setIcon(QMessageBox.Information)
        self.msg.setText('Welcom')
    else:
        self.msg.setIcon(QMessageBox.Question)
        self.msg.setText('wrong Password')

    self.msg.setStandardButtons(QMessageBox.Ok)
    self.msg.exec_()
```



# \_\_main\_\_

```
if __name__ == '__main__':  
    app=QApplication(sys.argv)  
    form=MyDialog()  
    form.show()  
    app.exec()
```



# Run

