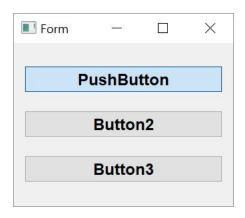
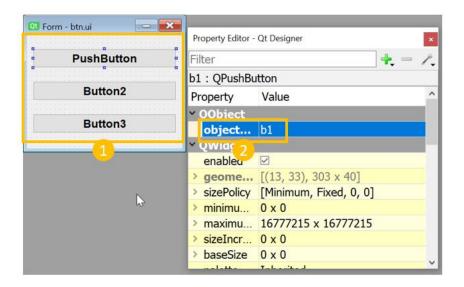
# How to use QPushButton - An Example



Step 1

# Adding the widgets to the form

- 1. Drop three instances of Push Button widgets on the form and put them in Vertical layout.
- 2. Assign object names as b1, b2 and b3.
- 3. Save the form as btn.ui and generate its Python script using pyuic5 utility.



Step 2

# Creating a toggle button

4. For setting btn 1 as a toggle button, add the following lines in setupUi() method:

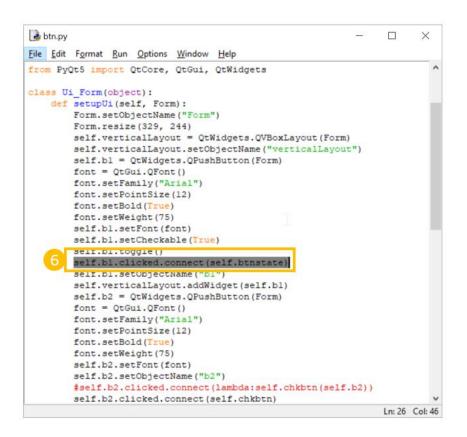
self.b1.setCheckable(True)
self.b1.toggle()

```
btn.py
                                                                 П
                                                                       X
File Edit Format Run Options Window Help
# WARNING! All changes made in this file will be lost!
from PyQt5 import QtCore, QtGui, QtWidgets
class Ui_Form(object):
    def setupUi(self, Form):
       Form.setObjectName("Form")
        Form.resize(329, 244)
        self.verticalLayout = QtWidgets.QVBoxLayout(Form)
        self.verticalLayout.setObjectName("verticalLayout")
        self.bl = QtWidgets.QPushButton(Form)
        font = QtGui.QFont()
        font.setFamily("Arial"
        font.setPointSize(12)
        font.setBold(True)
        font.setWeight (75)
        self.bl.setFont(font
        self.bl.setCheckable(True)
        self.bl.toggle()
        sell.bl.clicked.commect(sell.bomscace)
        self.bl.setObjectName("bl")
        self.verticalLayout.addWidget(self.bl)
        self.b2 = QtWidgets.QPushButton(Form)
        font = QtGui.QFont()
        font.setFamily("Arial
        font.setPointSize(12)
        font.setBold(True)
        font.setWeight (75)
        self.b2.setFont(font)
                                                                 Ln: 26 Col: 0
```

5. For the toggle button, to change the caption of b1 according to its state, add the following method in the Ui-Form class generated by pyuic5 utility def btnstate(self): if self.b1.isChecked(): self.b1.setText("pressed") else: self.b1.setText("released")

```
btn.py
                                                                     X
<u>File Edit Format Run Options Window Help</u>
         #self.ps.clicked.connect(lampda:self.cnkptn(self.ps))
        self.b3.clicked.connect(self.chkbtn)
        self.verticalLayout.addWidget(self.b3)
        self.retranslateUi(Form)
        QtCore.QMetaObject.connectSlotsByName(Form)
    def retranslateUi(self, Form):
         translate = QtCore.QCoreApplication.translate
        Form.setWindowTitle(_translate("Form", "Form"))
        self.bl.setText(_translate("Form", "PushButton"))
self.b2.setText(_translate("Form", "Button2"))
        self.b3.setText(_translate("Form", "Button3"))
    def chkbtn(self,b):
    def btnstate(self):
        if self.bl.isChecked():
            self.bl.setText("pressed")
          self.bl.setText("released")
if __name__ == "__main__":
    import sys
    app = QtWidgets.QApplication(sys.argv)
    Form = QtWidgets.QWidget()
    ui = Ui_Form()
    ui.setupUi(Form)
    Form.show()
                                                                     Ln: 68 Col: 0
```

6. Use this method as slot for clicked signal emitted by b1. Add the following statement in the script. self.b1.clicked.connect(self.btnstate)



## Identifying which button has been clicked

7. We want to identify which button out of b2 and b3 has been clicked. Add following method in the class and connect the same to clicked signal of b2 and b3.

def chkbtn(self,b): print ("caption of pressed button:", b.text())

```
btn.py
                                                                    X
File Edit Format Run Options Window Help
        self.ps.setront(font)
        self.b3.setObjectName("b3")
        #self.b3.clicked.connect(lambda:self.chkbtn(self.b3))
        self.b3.clicked.connect(self.chkbtn)
        self.verticalLayout.addWidget(self.b3)
        self.retranslateUi(Form)
        QtCore.QMetaObject.connectSlotsByName(Form)
    def retranslateUi(self, Form):
         translate = QtCore.QCoreApplication.translate
        Form.setWindowTitle( translate("Form", "Form"))
        self.bl.setText(_translate("Form", "PushButton"))
        self.b2.setText(_translate("Form", "Button2"))
self.b3.setText(_translate("Form", "Button3"))
    def chkbtn(self,b):
    def btnstate(self):
        if self.bl.isChecked():
            self.bl.setText("pressed")
        else:
             self.bl.setText("released")
if __name__ == "__main__":
    import sys
    app = QtWidgets.QApplication(sys.argv)
    Form = QtWidgets.QWidget()
    ui = Ui_Form()
                                                                    Ln: 63 Col: 0
```

8. Add following lines in setupUi() method

self.b2.clicked.connect(lambda:self.chkbtn(self.b2)) self.b3.clicked.connect(lambda:self.chkbtn(self.b3))

```
btn.py
                                                                File Edit Format Run Options Window Help
        font.setBold(True)
        font.setWeight (75)
        self.bl.setFont(font)
        self.bl.setCheckable(True)
        self.bl.toggle()
        self.bl.clicked.connect(self.btnstate)
        self.bl.setObjectName("bl")
       self.verticalLayout.addWidget(self.bl)
        self.b2 = QtWidgets.QPushButton(Form)
        font = QtGui.QFont()
        font.setFamily("Arial")
        font.setPointSize(12)
        font.setBold(True)
        font.setWeight (75)
        self.b2.setFont(font)
      self.b2.clicked.connect(lambda:self.chkbtn(self.b2))
        self.bz.clicked.connect(self.cnkbth)
        self.verticalLayout.addWidget(self.b2)
       self.b3 = QtWidgets.QPushButton(Form)
        font = QtGui.QFont()
        font.setFamily("Arial"
        font.setPointSize(12)
        font.setBold(True)
        font.setWeight(75)
        self.b3.setFont(font)
        self h3 setObjectName
       self.b3.clicked.connect(lambda:self.chkbtn(self.b3))
        sell.b3.Cllcked.Connect(Sell.Cnkbtn)
        self.verticalLayout.addWidget(self.b3)
                                                                Ln: 37 Col: 60
```

Step 4

## **Download Sample**

Click here to download sample files for the use of this widget.