

# 230307 파이썬 PyQt

## ComboBox

```
# ComboBox

# 윈도우 기본창 띄우기

import sys
from PyQt5.QtWidgets import *
from PyQt5 import uic

form_class = uic.loadUiType("mywindow7.ui")[0]

class MyWindow(QMainWindow, form_class):

    def __init__(self):
        super().__init__()
        self.setupUi(self)

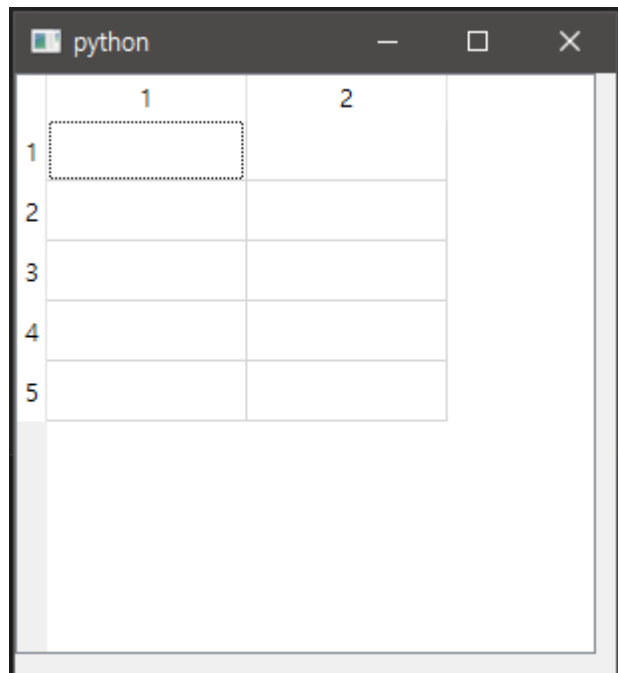
        # 단추 클릭했을 때 콤보 박스 확인

        self.printitem.clicked.connect(self.printFunction)

    def printFunction(self):
        print(self.comboBox.currentText())

app = QApplication(sys.argv)
window = MyWindow()
window.show()
app.exec_()
```

## Table Widget



```
import sys
from PyQt5.QtWidgets import *

class MyWindow(QMainWindow):
    def __init__(self):
        super().__init__()
        self.setGeometry(800, 200, 300, 300)

        self.tableWidget = QTableWidget(self)
        self.tableWidget.resize(290, 290)
        self.tableWidget.setColumnCount(2)
        self.tableWidget.setRowCount(5)

app = QApplication(sys.argv)
mywindow = MyWindow()
mywindow.show()
app.exec_()
```

```

import sys
from PyQt5.QtWidgets import *

class MyWindow(QMainWindow):
    def __init__(self):
        super().__init__()

        # 윈도우 창
        self.setGeometry(800, 200, 300, 300)

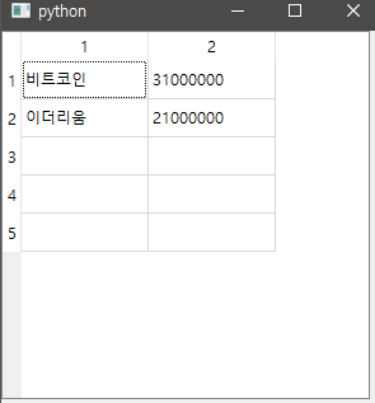
        # 윈도우에 테이블위젯 넣기
        self.tableWidget = QTableWidget(self)
        self.tableWidget.resize(290, 290)
        self.tableWidget.setColumnCount(2)
        self.tableWidget.setRowCount(5)

        # 테이블위젯에 데이터 넣기 (행, 열, 넣을값)
        self.tableWidget.setItem(0, 0, QTableWidgetItem("비트코인"))
        self.tableWidget.setItem(0, 1, QTableWidgetItem("31000000"))

        self.tableWidget.setItem(1, 0, QTableWidgetItem("이더리움"))
        self.tableWidget.setItem(1, 1, QTableWidgetItem("21000000"))

app = QApplication(sys.argv)
mywindow = MyWindow()
mywindow.show()
app.exec_()

```



	1	2
1	비트코인	31000000
2	이더리움	21000000
3		
4		
5		

**!!!주의 사항 테이블위젯의 열을 지정하지 않으면 에러가 많이 발생한다. ...**

## 실전

- 현재 온도 조회 앱

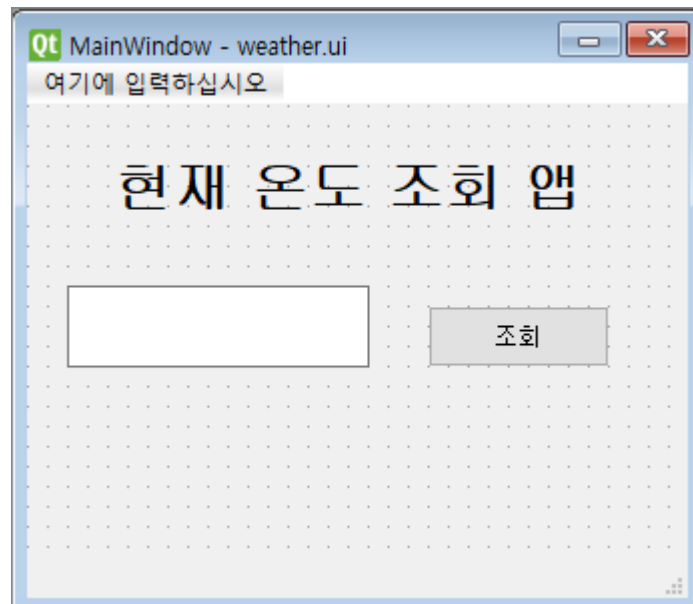
```

import requests
from bs4 import BeautifulSoup as bs

txt = requests.get('https://weather.naver.com/')
html = bs(txt.text)

temp = html.select('strong.current')[0].text.strip()
temp[5:]

```



```
# 현재 온도 조회 앱

# 윈도우 기본창 띄우기

import sys
from PyQt5.QtWidgets import *
from PyQt5 import uic
import requests
from bs4 import BeautifulSoup as bs

form_class = uic.loadUiType("weather.ui")[0]

class MyWindow(QMainWindow, form_class):

    def __init__(self):
        super().__init__()
        self.setupUi(self)

        # 단추를 누르면
        self.pushButton.clicked.connect(self.btnclicked)

        # 조회 후 칸에 출력
    def btnclicked(self):

        txt = requests.get('https://weather.naver.com/')
        html = bs(txt.text)

        temp = html.select('strong.current')[0].text.strip()
        result = temp[5:]

        self.lineEdit.setText(result)
```

```
app = QApplication(sys.argv)
window = MyWindow()
window.show()
app.exec_()
```

```
# 현재 온도 조회 앱

# 윈도우 기본창 띄우기

import sys
from PyQt5.QtWidgets import *
from PyQt5 import uic
import requests
from bs4 import BeautifulSoup as bs

form_class = uic.loadUiType("weather.ui")[0]

class MyWindow(QMainWindow, form_class):

    def __init__(self):
        super().__init__()
        self.setupUi(self)

        # 단추를 누르면
        self.pushButton.clicked.connect(self.btnclicked)

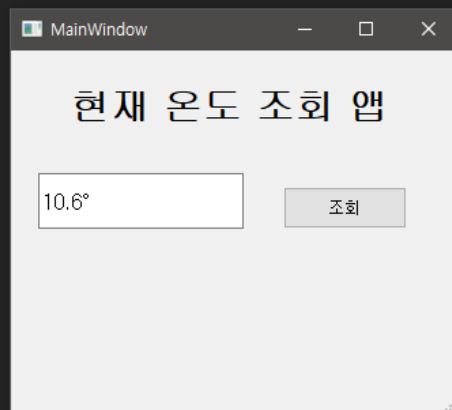
        # 조회 후 칸에 출력
    def btnclicked(self):

        txt = requests.get('https://weather.naver.com/')
        html = bs(txt.text)

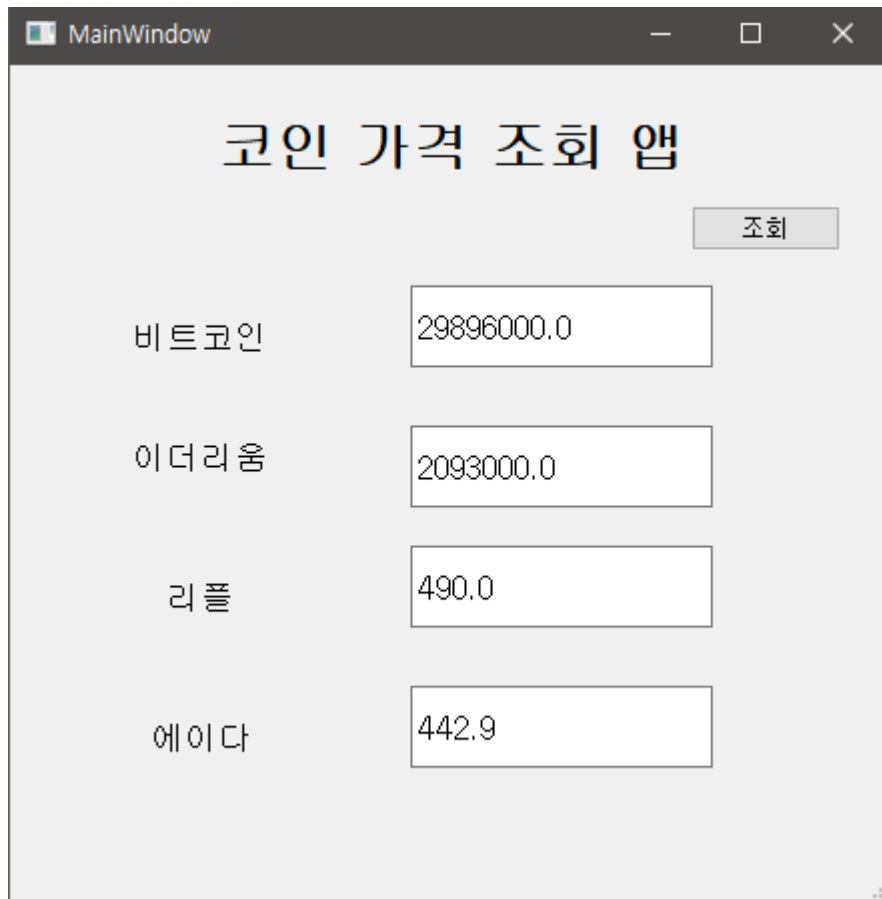
        temp = html.select('strong.current')[0].text.strip()
        result = temp[5:]

        self.lineEdit.setText(result)

app = QApplication(sys.argv)
window = MyWindow()
window.show()
app.exec_()
```



## 코인 가격 조회 앱(비트코인, 이더리움, 리플, 에이다)



```
# 코인 가격 조회 앱

# 윈도우 기본창 띄우기

import sys
from PyQt5.QtWidgets import *
from PyQt5 import uic
import requests
from bs4 import BeautifulSoup as bs
import pybithumb as pb

form_class = uic.loadUiType("coin.ui")[0]

class MyWindow(QMainWindow, form_class):

    def __init__(self):
        super().__init__()
        self.setupUi(self)

        # 단추를 누르면
        self.pushButton.clicked.connect(self.btnclicked)

        # 조회 후 칸에 출력
        def btnclicked(self):

            price1 = pb.get_current_price("BTC")
```

```

self.lineEdit_1.setText((str)(price1))

price2 = pb.get_current_price("ETH")
self.lineEdit_2.setText((str)(price2))

price3 = pb.get_current_price("XRP")
self.lineEdit_3.setText((str)(price3))

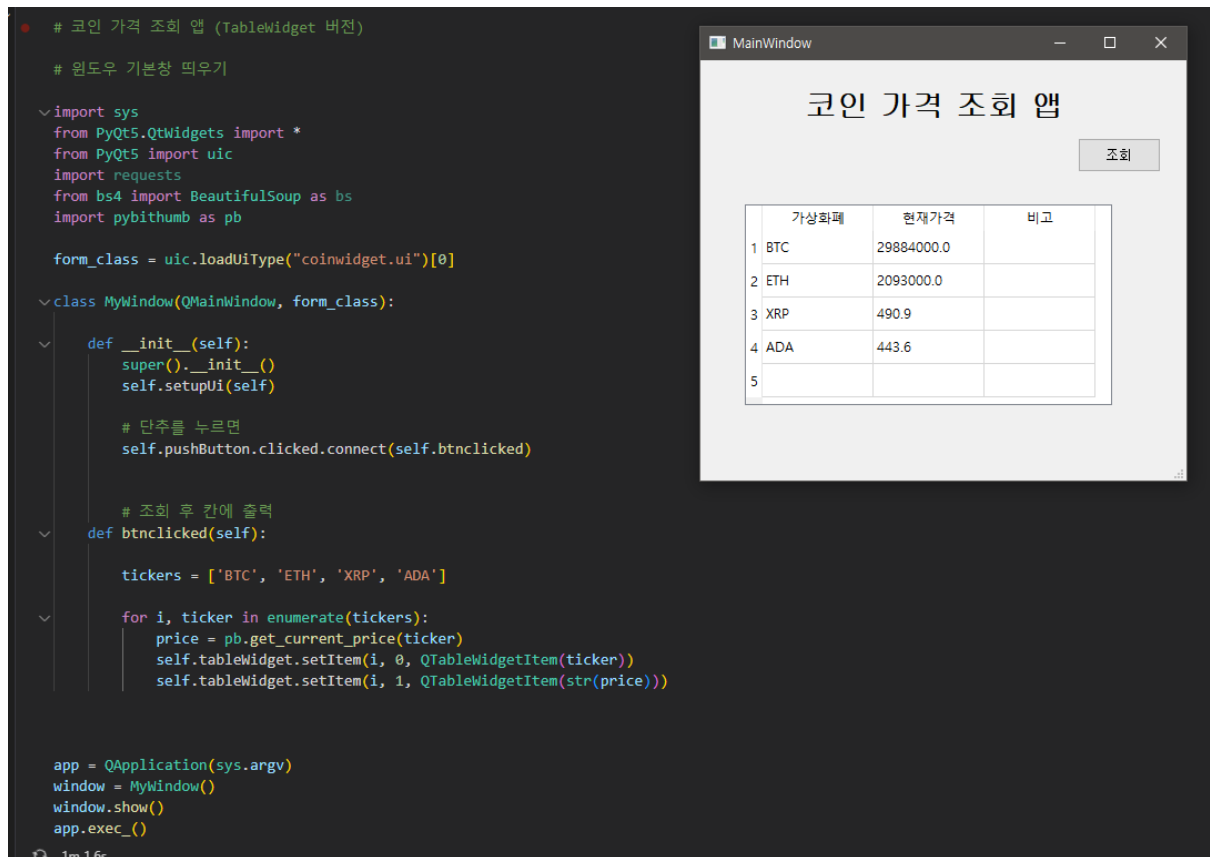
price4 = pb.get_current_price("ADA")
self.lineEdit_4.setText((str)(price4))

app = QApplication(sys.argv)
window = MyWindow()
window.show()
app.exec_()

```

**테이블 위젯은 행,열을 반드시 설정해줘야 한다.**

▼ QTableWidget	
rowCount	0
columnCount	0



```

# 코인 가격 조회 앱 (TableWidget 버전)

# 윈도우 기본창 띄우기

import sys
from PyQt5.QtWidgets import *
from PyQt5 import uic
import requests
from bs4 import BeautifulSoup as bs
import pybithumb as pb

form_class = uic.loadUiType("coinwidget.ui")[0]

class MyWindow(QMainWindow, form_class):

    def __init__(self):
        super().__init__()
        self.setupUi(self)

        # 단추를 누르면
        self.pushButton.clicked.connect(self.btnclicked)

        # 조회 후 칸에 출력
    def btnclicked(self):

        tickers = ['BTC', 'ETH', 'XRP', 'ADA']

```



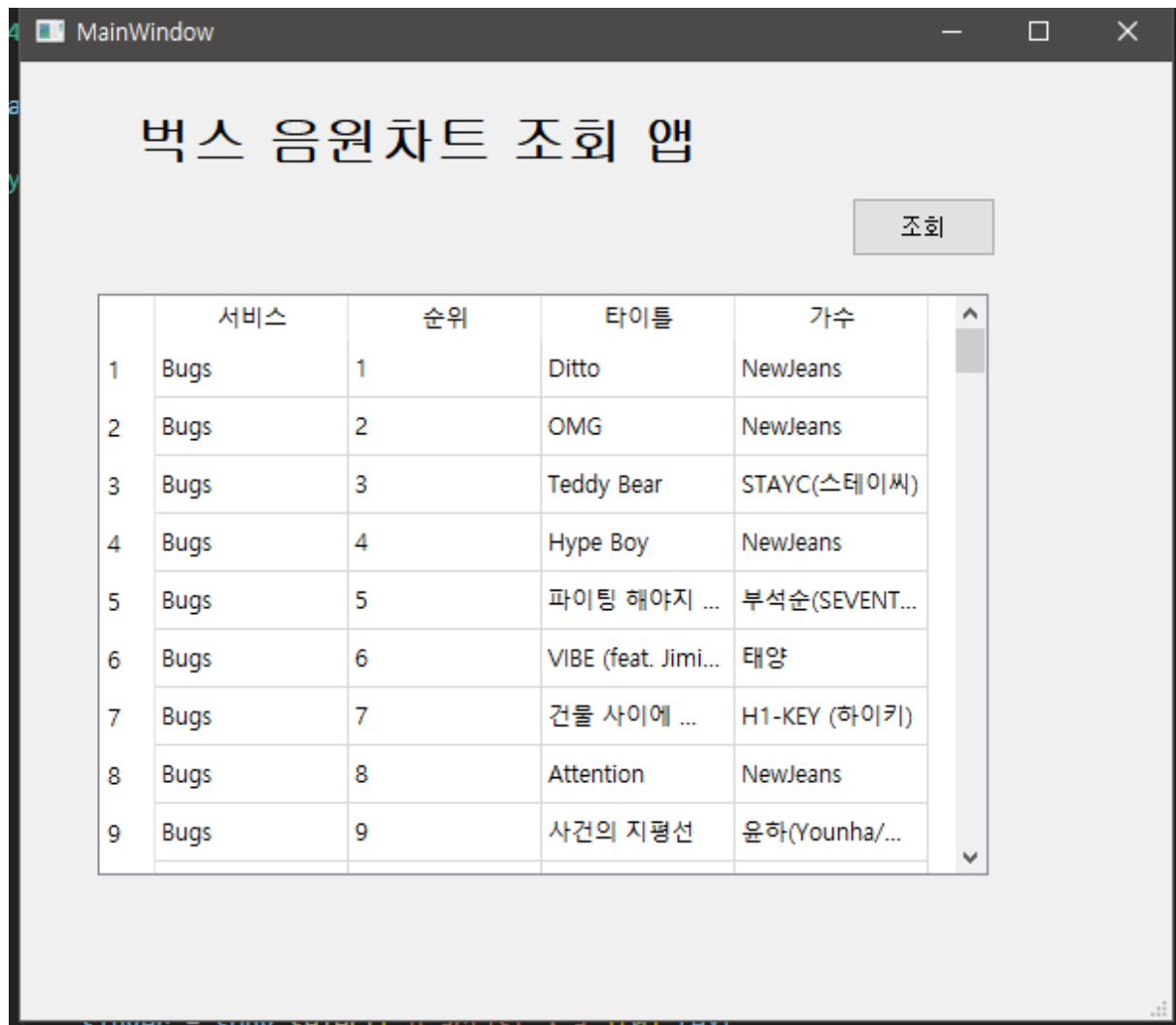
```

for i, ticker in enumerate(tickers):
    price = pb.get_current_price(ticker)
    self.tableWidget.setItem(i, 0, QTableWidgetItem(ticker))
    self.tableWidget.setItem(i, 1, QTableWidgetItem(str(price)))

app = QApplication(sys.argv)
window = MyWindow()
window.show()
app.exec_()

```

## Bugs 음원 차트 조회 앱(내가 한 것)



```

# 벅스 음원 차트 조회 앱

# 윈도우 기본창 띄우기

import sys
from PyQt5.QtWidgets import *
from PyQt5 import uic
import requests
from bs4 import BeautifulSoup as bs

form_class = uic.loadUiType("bugs.ui")[0]

class MyWindow(QMainWindow, form_class):

    def __init__(self):
        super().__init__()
        self.setupUi(self)

        # 단추를 누르면
        self.pushButton.clicked.connect(self.btnclicked)

        # 조회 후 칸에 출력
    def btnclicked(self):

        txt = requests.get("https://music.bugs.co.kr/chart")
        html = bs(txt.text)

        songs = html.select('table.byChart > tbody > tr')
        song = songs[0]
        rank = 1

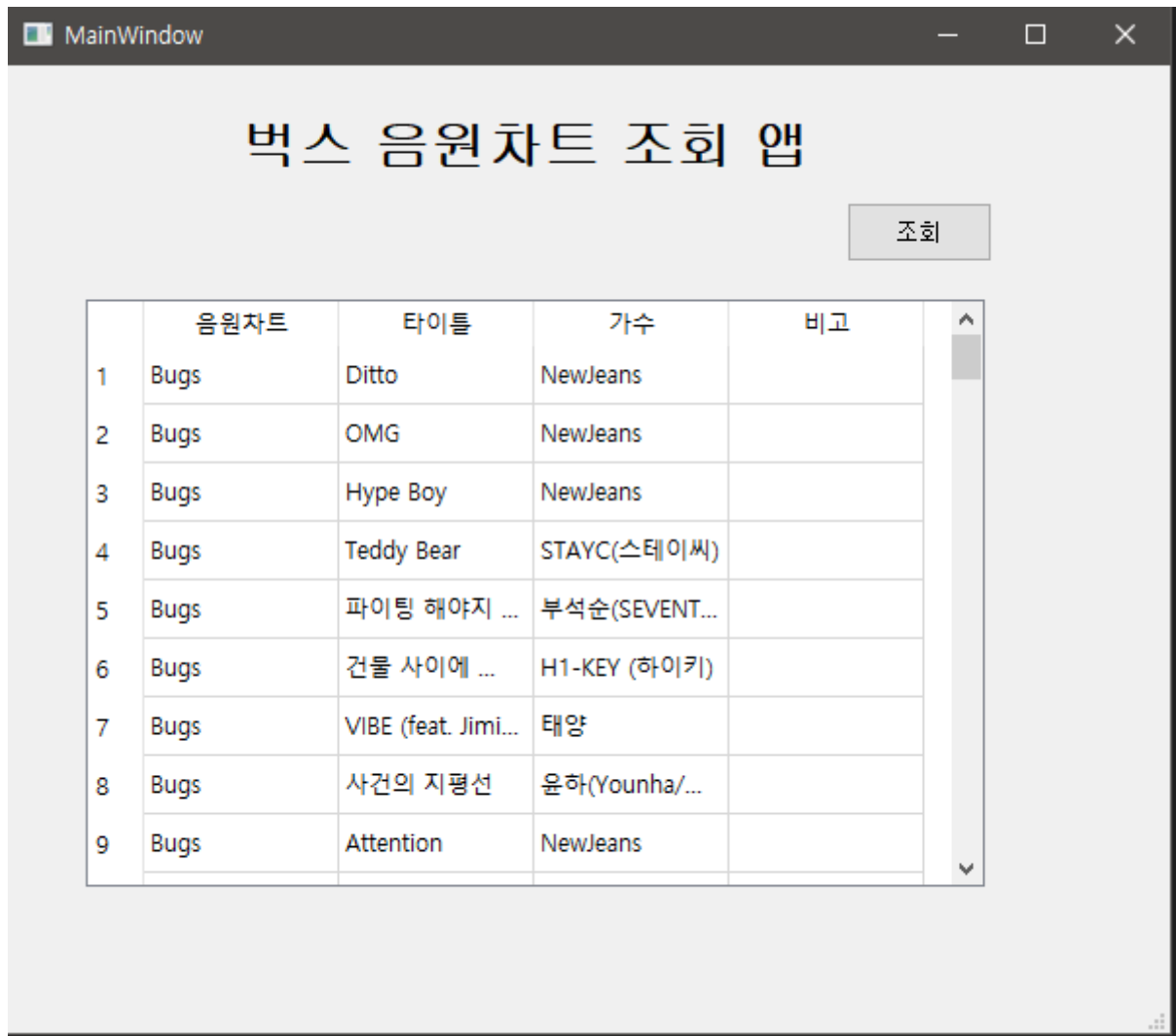
        for i, song in enumerate(songs):

            title = song.select('p.title > a')[0].text
            singer = song.select('p.artist > a')[0].text
            self.tableWidget.setItem(i, 0, QTableWidgetItem('Bugs'))
            self.tableWidget.setItem(i, 1, QTableWidgetItem(str(rank)))
            self.tableWidget.setItem(i, 2, QTableWidgetItem(title))
            self.tableWidget.setItem(i, 3, QTableWidgetItem(singer))
            rank += 1

app = QApplication(sys.argv)
window = MyWindow()
window.show()
app.exec_()

```

## 벅스 음원 차트 조회 앱 (강사님이랑 한 것)



```
# 벅스 음원 차트 조회 앱 (강사님이랑 같이)

# 윈도우 기본창 띄우기

import sys
from PyQt5.QtWidgets import *
from PyQt5 import uic
import requests
from bs4 import BeautifulSoup as bs

form_class = uic.loadUiType("bugs2.ui")[0]

class MyWindow(QMainWindow, form_class):

    def __init__(self):
        super().__init__()
        self.setupUi(self)

        # 단추를 누르면
        self.pushButton.clicked.connect(self.btnclicked)
```

```

# 조회 후 칸에 출력
def btnclicked(self):

    url = "https://music.bugs.co.kr/chart"
    txt = requests.get(url)
    html = bs(txt.text)

    songs = html.select('table.byChart > tbody > tr')

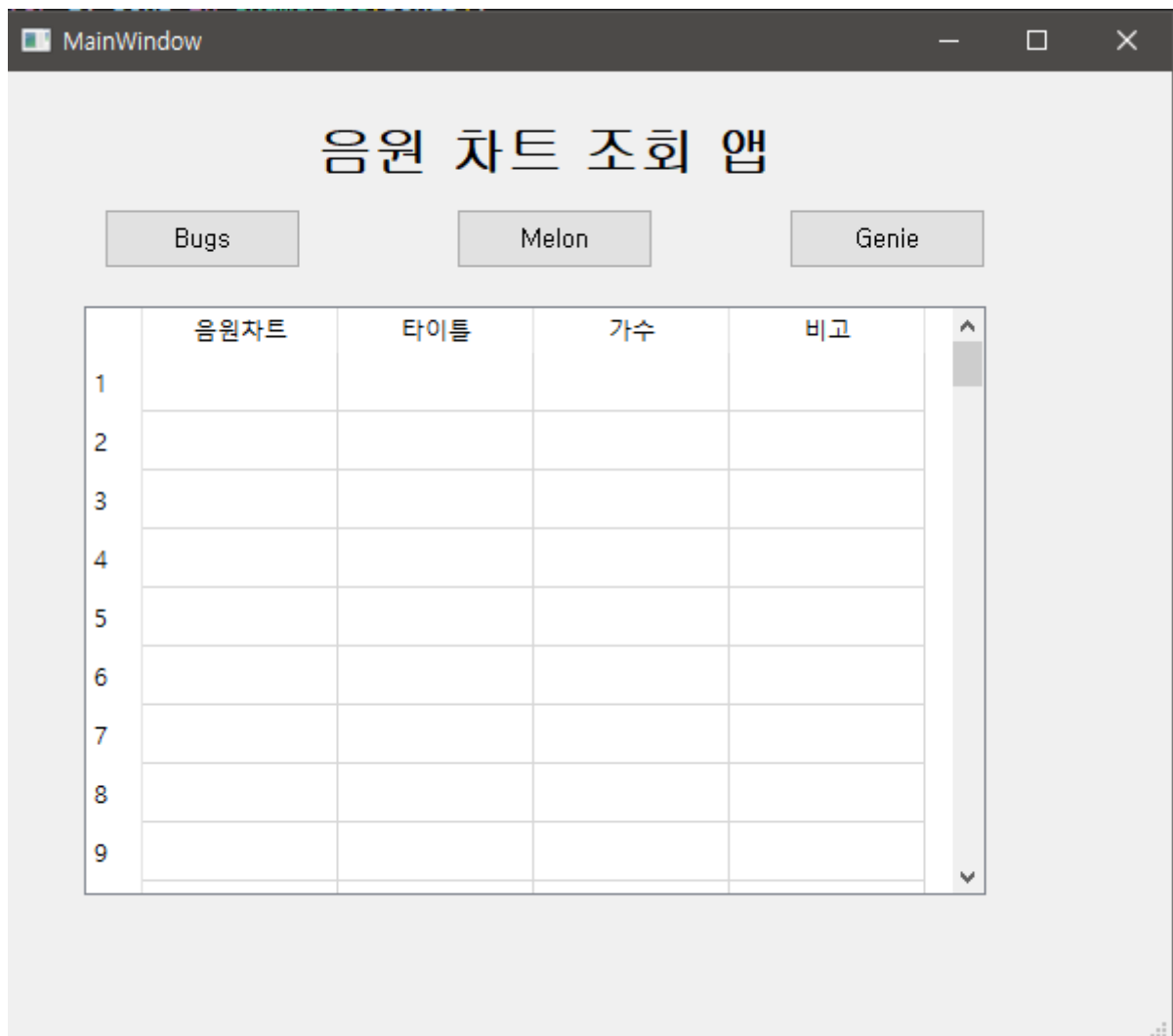
    for i, song in enumerate(songs):

        title = song.select('p.title > a')[0].text
        singer = song.select('p.artist > a')[0].text
        self.tableWidget.setItem(i, 0, QTableWidgetItem('Bugs'))
        self.tableWidget.setItem(i, 1, QTableWidgetItem(title))
        self.tableWidget.setItem(i, 2, QTableWidgetItem(singer))

app = QApplication(sys.argv)
window = MyWindow()
window.show()
app.exec_()

```

## 벅스, 멜론, 지니 음원차트 조회 앱



```
# 음원 차트 조회 앱

# 윈도우 기본창 띄우기

import sys
from PyQt5.QtWidgets import *
from PyQt5 import uic
import requests
from bs4 import BeautifulSoup as bs
from selenium import webdriver # 위에서 requests랑은 다른 것
import time

form_class = uic.loadUiType("musicchart.ui")[0]

class MyWindow(QMainWindow, form_class):

    def __init__(self):
        super().__init__()
        self.setupUi(self)

        # 단추를 누르면
        self.bugsButton.clicked.connect(self.bugsbtnClicked)
```

```

self.melonButton.clicked.connect(self.melonbtnclicked)
self.genieButton.clicked.connect(self.geniebtnclicked)

# 조회 후 칸에 출력
# 박스
def bugsbtnclicked(self):

    self.label.setText("Bugs 차트 100")
    self.tableWidget.clear()

    url = "https://music.bugs.co.kr/chart"
    txt = requests.get(url)
    html = bs(txt.text)

    songs = html.select('table.byChart > tbody > tr')

    for i, song in enumerate(songs):

        title = song.select('p.title > a')[0].text
        singer = song.select('p.artist > a')[0].text
        self.tableWidget.setItem(i, 0, QTableWidgetItem('Bugs'))
        self.tableWidget.setItem(i, 1, QTableWidgetItem(title))
        self.tableWidget.setItem(i, 2, QTableWidgetItem(singer))

# 멜론
def melonbtnclicked(self):

    self.label.setText("Melon 차트 100")
    self.tableWidget.clear()

    driver = webdriver.Chrome('chromedriver.exe')
    driver.get("https://www.melon.com/chart/")

    txt = driver.page_source
    html = bs(txt)

    songs = html.select('tbody > tr')

    for i, song in enumerate(songs):

        title = song.select('.rank01 > span > a')[0].text
        singer = song.select('.rank02 > span > a')[0].text
        self.tableWidget.setItem(i, 0, QTableWidgetItem('Melon'))
        self.tableWidget.setItem(i, 1, QTableWidgetItem(title))
        self.tableWidget.setItem(i, 2, QTableWidgetItem(singer))

# 지니
def geniebtnclicked(self):

    self.label.setText("Genie 차트 100")
    self.tableWidget.clear()

    driver = webdriver.Chrome('chromedriver.exe')
    url = "https://www.genie.co.kr/chart/top200"
    driver.get(url)

    txt = driver.page_source

```

```

html = bs(txt)

songs = html.select('tbody > tr')

for i, song in enumerate(songs):

    title = song.select('a.title')[0].text.strip()
    singer = song.select('a.artist')[0].text.strip()
    self.tableWidget.setItem(i, 0, QTableWidgetItem('Genie'))
    self.tableWidget.setItem(i, 1, QTableWidgetItem(title))
    self.tableWidget.setItem(i, 2, QTableWidgetItem(singer))

time.sleep(1)
url = 'https://www.genie.co.kr/chart/top200?ditc=D&ymd=20230228&hh=14&rtm=Y&pg
=2'

driver.get(url)

txt = driver.page_source      # 이때 읽어온 데이터는 그냥 글자
html = bs(txt)

songs = html.select('tbody > tr')

for i, song in enumerate(songs):

    title = song.select('a.title')[0].text.strip()
    singer = song.select('a.artist')[0].text.strip()
    self.tableWidget.setItem(i+50, 0, QTableWidgetItem('Genie'))
    self.tableWidget.setItem(i+50, 1, QTableWidgetItem(title))
    self.tableWidget.setItem(i+50, 2, QTableWidgetItem(singer))

app = QApplication(sys.argv)
window = MyWindow()
window.show()
app.exec_()

```