

Correction TP3
Qt designer, Pyqt5 et Python

Nombre parfait :

pgr1.py

```
from PyQt5.uic import loadUi
from PyQt5.QtWidgets import QApplication
```

```
def somChif(nb):
    ch=str(nb)
    l=len(ch)
    s=0
    for i in range(l):
        s=s+int(ch[i])
    return s
def code(n):
    nb=n
    while(nb>10):
        nb=somChif(nb)
    c=str(nb)+str(n)
    return c
```

```
def keygen():
    n=int(window.zs.text())
    if (n<100):
        res='verifier votre nombre'
    else:
        res=code(n)
    window.lb3.setText(res)
```

```
app = QApplication([ ])
window= loadUi ("interfaceCode.ui")
window.show()
window.btn.clicked.connect (keygen)
app.exec_()
```

interfaceCode.ui

```
<?xml version="1.0" encoding="UTF-8"?>
<ui version="4.0">
<class>MainWindow</class>
<widget class="QMainWindow" name="MainWindow">
<property name="geometry">
<rect>
<x>0</x>
<y>0</y>
```

```
<width>500</width>
<height>400</height>
</rect>
</property>
<property name="minimumSize">
<size>
<width>500</width>
<height>400</height>
</size>
</property>
<property name="maximumSize">
<size>
<width>500</width>
<height>400</height>
</size>
</property>
<property name="windowTitle">
<string>MainWindow</string>
</property>
<widget class="QWidget" name="centralwidget">
<widget class="QLabel" name="label">
<property name="geometry">
<rect>
<x>80</x>
<y>20</y>
<width>281</width>
<height>41</height>
</rect>
</property>
<property name="text">
<string>&lt;html&gt;&lt;head/&gt;&lt;body&gt;&lt;p
align="center"&gt;&lt;span style="font-
size:18pt;"&gt;Générateur du
code&lt;/span&gt;&lt;/p&gt;&lt;/body&gt;&lt;/html&gt;</string>
</property>
</widget>
<widget class="QLabel" name="label_2">
<property name="geometry">
<rect>
<x>40</x>
<y>90</y>
<width>171</width>
<height>41</height>
</rect>
</property>
<property name="text">
<string>&lt;html&gt;&lt;head/&gt;&lt;body&gt;&lt;p&gt;&lt;span style="font-
size:16pt;"&gt;Saisir un
nombre&lt;/span&gt;&lt;/p&gt;&lt;/body&gt;&lt;/html&gt;</string>
</property>
```

```
</widget>
<widget class="QLabel" name="lb3">
<property name="geometry">
<rect>
<x>140</x>
<y>170</y>
<width>221</width>
<height>20</height>
</rect>
</property>
<property name="text">
<string>&lt;html&gt;&lt;head&gt;&lt;body&gt;&lt;p
align=&quot;center&quot;&gt;&lt;span style=&quot; font-size:12pt;&quot;&gt;--
&lt;/span&gt;&lt;/p&gt;&lt;/body&gt;&lt;/html&gt;</string>
</property>
</widget>
<widget class="QPushButton" name="btn">
<property name="geometry">
<rect>
<x>180</x>
<y>257</y>
<width>131</width>
<height>40</height>
</rect>
</property>
<property name="minimumSize">
<size>
<width>0</width>
<height>40</height>
</size>
</property>
<property name="maximumSize">
<size>
<width>16777215</width>
<height>40</height>
</size>
</property>
<property name="font">
<font>
<pointsize>14</pointsize>
<italic>>false</italic>
</font>
</property>
<property name="text">
<string>G n rer</string>
</property>
</widget>
<widget class="QLineEdit" name="zs">
<property name="geometry">
<rect>
```

```
<x>290</x>  
<y>100</y>  
<width>113</width>  
<height>28</height>  
</rect>  
</property>  
</widget>  
</widget>  
<widget class="QStatusBar" name="statusbar"/>  
</widget>  
<resources/>  
<connections/>  
</ui>
```