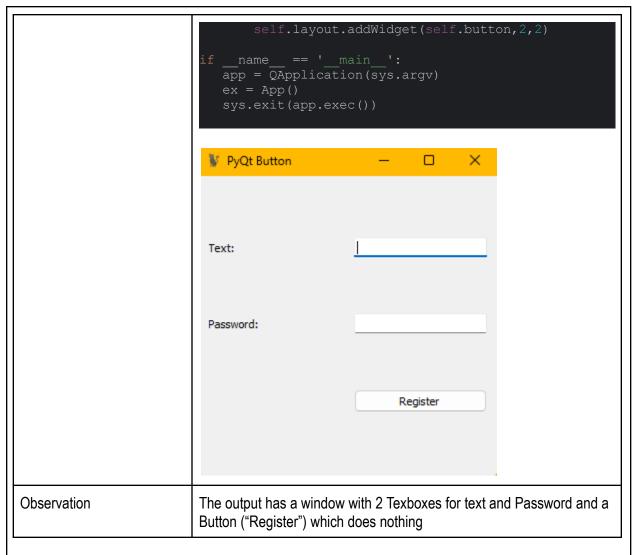
Activity Name #6 - Activity GU	l Design_ Layout and Styling
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```
Basic
Grid
                        from PyQt5.QtWidgets import QWidget, QPushButton,
Layout
                        QApplication, QGridLayout, QLabel, QLineEdit
(code & output)
                        from PyQt5.QtGui import QIcon
                        class App(QWidget):
                               self.width=300
                        self.setGeometry(self.x,self.y,self.width,self.height
                               self.createGridLayout()
                               self.setLayout(self.layout)
                               self.layout = QGridLayout()
                               self.layout.setColumnStretch(1,2)
                               self.textbox = QLineEdit(self)
                               self.passwordlbl = QLabel("Password: ", self)
                               self.password.setEchoMode(QLineEdit.Password)
                               self.button.setToolTip("You've hovered over
                        me!")
                               self.layout.addWidget(self.textboxlbl,0,1)
                               self.layout.addWidget(self.textbox, 0, 2)
                               self.layout.addWidget(self.passwordlbl,1,1)
                               self.layout.addWidget(self.password,1,2)
```

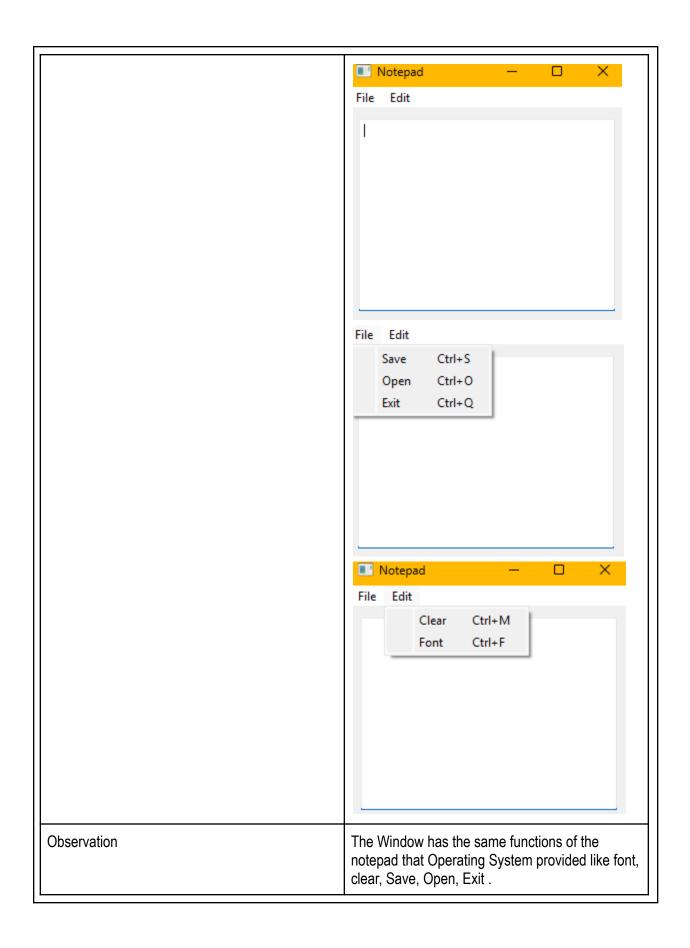


```
self.textLine =
                                             QLineEdit(self)
                                             range(1,7) for j in range(1,6)
                                             zip(positions, names):
                                                         grid.addWidget(button,
                                             *position)
                                                     self.setGeometry(300, 300,
                                             Layout')
                                                     self.show()
                                                \overline{app} = \overline{QApplication}(\overline{sys.argv})
                                                ex =GridExample()
                                                sys.exit(app.exec())
                                                 3
Observation
                                             The Window has basic buttons for a calculator
                                             but has no function but its not clean and it can be
                                             stretched wide.
Code & Output
                                             from PyQt5.QtWidgets import *
                                             from PyQt5.QtGui import QIcon
                                             class MainWindow(QMainWindow):
                                                     self.setWindowTitle("Notepad")
```

```
co"))
       self.loadmenu()
       self.show()
       fileMenu =
mainMenu.addMenu('File')
      editMenu =
mainMenu.addMenu('Edit')
       editButton = QAction('Clear',
self)
editButton.setShortcut("ctrl+M")
editButton.triggered.connect(self.cle
artext)
       editMenu.addAction(editButton)
       fontButton = QAction('Font',
fontButton.setShortcut("ctrl+F")
fontButton.triggered.connect(self.sho
wFontDialog)
       editMenu.addAction(fontButton)
      saveButton = QAction('Save',
self)
saveButton.setShortcut("ctrl+S")
saveButton.triggered.connect(self.sav
eFileDialog)
       fileMenu.addAction(saveButton)
      openButton = QAction('Open',
openButton.setShortcut("Ctrl+0")
openButton.triggered.connect(self.ope
nFileNameDialog)
       fileMenu.addAction(openButton)
      exitButton = QAction('Exit',
exitButton.setShortcut("Ctrl+Q")
       exitButton.setStatusTip('Exit
```

```
exitButton.triggered.connect(self.clo
se)
       fileMenu.addAction(exitButton)
QFontDialog.getFont()
self.notepad.text.setFont(font)
       options =
QFileDialog.Options()
       fileName, =
QFileDialog.getSaveFileName(self,
"Save notepad file", "",
"Text Files (*.txt);;Python Files
options=options)
      if fileName:
          with open(fileName, 'w')
as file:
file.write(self.notepad.text.toPlainT
ext())
   def openFileNameDialog(self):
       options =
QFileDialog.Options()
QFileDialog.getOpenFileName(self,
"Open notepad file", "",
"Text Files (*.txt);;Python Files
options=options)
as file:
               data = file.read()
       self.notepad.text.clear()
```

```
self.notepad = Notepad()
self.setCentralWidget(self.notepad)
class Notepad(QWidget):
QPushButton("Clear")
self.clearbtn.clicked.connect(self.cl
eartext)
      self.initUI()
      windowLayout = QVBoxLayout()
windowLayout.addWidget(self.horizonta
lGroupBox)
      self.horizontalGroupBox =
QGroupBox("Grid")
      self.layout = QHBoxLayout()
self.layout.addWidget(self.text)
#self.layout.addWidget(self.clearbtn)
self.horizontalGroupBox.setLayout(sel
.layout)
if name ==' main ':
  app = QApplication(sys.argv)
  ex = MainWindow()
  sys.exit(app.exec ())
```



Supplementary Activity:		