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1. Import Library

```
import sys
from PyQt6.QtWidgets import (
    QApplication,
    QMainWindow,
    QWidget,
    QLabel,
    QLineEdit,
    QVBoxLayout,
    QHBoxLayout,
    QGridLayout,
    QPushButton,
)
```

2. Fungsi main_window()

```
def main_window():
    app = QApplication(sys.argv)
    window = QWidget()

    labelNama = QLabel("Nama: ")
    lineNama = QLineEdit()
    lineNama.setStyleSheet("background-color: white;")
    labelNIM = QLabel("NIM: ")
    lineNIM = QLineEdit()
    lineNIM.setStyleSheet("background-color: white;")
    labelUTS = QLabel("UTS: ")
    lineUTS = QLineEdit()
    lineUTS.setStyleSheet("background-color: white;")
    labelUAS = QLabel("UAS: ")
    lineUAS = QLineEdit()
    lineUAS.setStyleSheet("background-color: white;")
    labelTugas = QLabel("Tugas: ")
    lineTugas = QLineEdit()
    lineTugas.setStyleSheet("background-color: white;")

    labelSuhu = QLabel("input suhu: ")
    labelC = QLabel("C:")
    lineC = QLineEdit()
    lineC.setStyleSheet("background-color: white;")
    labelF = QLabel("F: ")
    lineF = QLineEdit()
    lineF.setStyleSheet("background-color: white;")
    labelK = QLabel("K: ")
    lineK = QLineEdit()
    lineK.setStyleSheet("background-color: white;")
    labelR = QLabel("R: ")
    lineR = QLineEdit()
    lineR.setStyleSheet("background-color: white;")

    btnSubmit = QPushButton("submit")
    btnSubmit.setStyleSheet("background-color: lightblue;")
```

```

gridLayout = QGridLayout()
gridLayout.addWidget(labelNama, 0, 0)
gridLayout.addWidget(lineNama, 0, 1)
gridLayout.addWidget(labelNIM, 1, 0)
gridLayout.addWidget(lineNIM, 1, 1)
gridLayout.addWidget(labelUTS, 2, 0)
gridLayout.addWidget(lineUTS, 2, 1)
gridLayout.addWidget(labelUAS, 3, 0)
gridLayout.addWidget(lineUAS, 3, 1)
gridLayout.addWidget(labelTugas, 4, 0)
gridLayout.addWidget(lineTugas, 4, 1)

gridLayout2 = QGridLayout()
gridLayout2.addWidget(labelC, 1,0)
gridLayout2.addWidget(lineC, 1,1)
gridLayout2.addWidget(labelF, 1,2)
gridLayout2.addWidget(lineF, 1,3)
gridLayout2.addWidget(labelK, 2,0)
gridLayout2.addWidget(lineK, 2,1)
gridLayout2.addWidget(labelR, 2,2)
gridLayout2.addWidget(lineR, 2,3)

btnLayout = QHBoxLayout()
btnLayout.addWidget(btnSubmit)

layout = QVBoxLayout()
layout.addLayout(gridLayout)
layout.addLayout(gridLayout2)
layout.addLayout(btnLayout)

window.setLayout(layout)

window.setGeometry(250, 100, 300, 350)
window.setStyleSheet("background-color: #999")
window.setWindowTitle("P10")
window.show()
sys.exit(app.exec())

```

3. Eksekusi

```

if __name__ == '__main__':
    main_window()

```

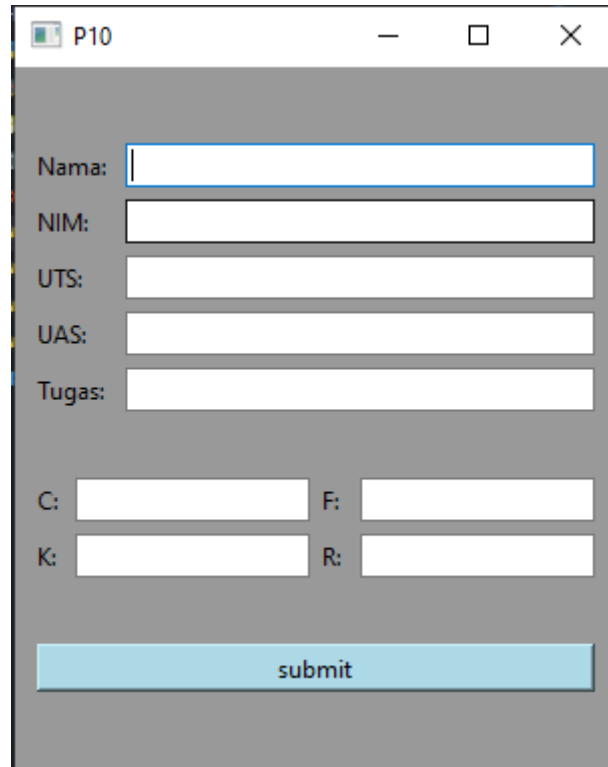
Penjelasan kode program:

1. Melakukan import sys dan dari PyQt6.QtWidgets import elemen-elemen yang dibutuhkan pada aplikasi yang akan dibuat,
2. Pada fungsi main_window(), mendeklarasikan QApplication(sys.argv) dan QWidget(). Lalu mendeklarasikan elemen-elemen yang dibutuhkan dan menambahkan stylesheet pada elemen yang akan diberi style. Berikutnya mendeklarasikan QVBoxLayout untuk layout terluar dan dua QGridLayout() untuk masukan data mahasiswa dan suhu. Selanjutnya mengatur layout setiap elemen lalu setiap layout ditambahkan ke dalam window. Terakhir mengatur

ukuran window, style window, title window, menjalankan show pada window, dan `sys.exit(app.exec())` agar aplikasi dapat dijalankan dan akan tertutup jika di close.

3. Mengeksekusi fungsi dengan kondisi jika `__name__` adalah `'__main__'` maka akan dijalankan fungsi `main_window()`.

Hasil running:



The screenshot shows a window titled "P10" with a standard Windows-style title bar (minimize, maximize, close buttons). The window contains a form with the following elements:

- Labels and input fields for "Nama:", "NIM:", "UTS:", "UAS:", and "Tugas:" arranged vertically.
- Labels and input fields for "C:", "F:", "K:", and "R:" arranged in two rows.
- A light blue button labeled "submit" at the bottom.