KJ ACT

```python
import sys
from PyQt5.QtWidgets import QApplication, QWidget, QLabel, QVBoxLayout, QPushButton, QLineEdit, QTextEdit, QMessageBox, QComboBox


class ComplexGUI(QWidget):
    def __init__(self):
        super().__init__()
        self.initUI()

    def initUI(self):
        self.setWindowTitle('Contoh GUI Kompleks')

        # Membuat label
        label_name = QLabel('Nama:', self)
        label_gender = QLabel('Jenis Kelamin:', self)
        label_class = QLabel('Kelas:', self)
        label_student_id = QLabel('Nomor Induk:', self)
        label_uts = QLabel('Nilai UTS:', self)
        label_uas = QLabel('Nilai UAS:', self)

        # Membuat input teks
        self.name_input = QLineEdit(self)
        self.student_id_input = QLineEdit(self)
        self.uts_input = QLineEdit(self)
        self.uas_input = QLineEdit(self)

        # Membuat combo box untuk jenis kelamin
        self.gender_combo = QComboBox(self)
        self.gender_combo.addItem("Laki-laki")
        self.gender_combo.addItem("Perempuan")

        # Membuat combo box untuk kelas
        self.class_combo = QComboBox(self)
        self.class_combo.addItem("1IA21")
        self.class_combo.addItem("1IA22")
        self.class_combo.addItem("1IA23")
        self.class_combo.addItem("1IA24")
        self.class_combo.addItem("1IA25")
        self.class_combo.addItem("1IA26")
        self.class_combo.addItem("1IA27")
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```python
        # Membuat tombol
        button = QPushButton('Cetak', self)
        button.clicked.connect(self.on_button_clicked)

        # Membuat area teks
        self.text_area = QTextEdit(self)

        # Membuat layout vertikal
        layout = QVBoxLayout()
        layout.addWidget(label_name)
        layout.addWidget(self.name_input)
        layout.addWidget(label_gender)
        layout.addWidget(self.gender_combo)
        layout.addWidget(label_class)
        layout.addWidget(self.class_combo)
        layout.addWidget(label_student_id)
        layout.addWidget(self.student_id_input)
        layout.addWidget(label_uts)
        layout.addWidget(self.uts_input)
        layout.addWidget(label_uas)
        layout.addWidget(self.uas_input)
        layout.addWidget(button)
        layout.addWidget(self.text_area)

        # Mengatur layout utama
        self.setLayout(layout)

        self.show()

    def on_button_clicked(self):
        name = self.name_input.text()
        gender = self.gender_combo.currentText()
        student_class = self.class_combo.currentText()
        student_id = self.student_id_input.text()
        uts = self.uts_input.text()
        uas = self.uas_input.text()
```

```python
def on_button_clicked(self):
    name = self.name_input.text()
    gender = self.gender_combo.currentText()
    student_class = self.class_combo.currentText()
    student_id = self.student_id_input.text()
    uts = self.uts_input.text()
    uas = self.uas_input.text()

    if name and gender and student_class and student_id and uts and uas:
        uts = float(uts)
        uas = float(uas)
        result = (uts + uas) / 2
        grade = ''

        if result >= 90:
            grade = 'A'
        elif result >= 80:
            grade = 'B'
        elif result >= 70:
            grade = 'C'
        elif result >= 0:
            grade = 'D'
        else:
            grade = 'Error'

        info = f'Nama: {name}\nJenis Kelamin: {gender}\nKelas: {student_class}\nNomor Induk: {student_id}\nNilai Rata-rata: {result}\nGrade: {grade}'
        self.text_area.setText(info)
    else:
        QMessageBox.warning(self, 'Peringatan', 'Silakan isi semua bidang.')
```

```python
102  if __name__ == '__main__':
103      app = QApplication(sys.argv)
104      gui = ComplexGUI()
105      sys.exit(app.exec_())
```