

Class 03 Assignment - March 10, 2025

✔ Assignment:

Lesson 05: Control Flow & Loops [View Lesson](#)

Lesson 06: Lists, Tuples & Dictionary [View Lesson](#)

Lesson 07: The Set & Frozenset [View Lesson](#)

✔ File 1: control_flow_loops.py

```
# class-03/control_flow_loops.py
```

```
# IF-ELSE Statement
```

```
num = 10
```

```
if num > 0:
```

```
    print("Positive number")
```

```
else:
```

```
    print("Non-positive number")
```

```
# ELIF example
```

```
marks = 85
```

```
if marks >= 90:
```

```
    print("Grade: A")
```

```
elif marks >= 75:
```

```
    print("Grade: B")
```

```
else:
```

```
    print("Grade: C")
```

```
# FOR loop
```

```
print("Numbers 1 to 5:")
```

```
for i in range(1, 6):
```

```
    print(i)
```

```
# WHILE loop
```

```
print("While Loop Countdown:")
```

```
count = 3
```

```
while count > 0:
```

```
    print(count)
```

```
    count -= 1
```

✔ File 2: lists_tuples_dict.py

```
# class-03/lists_tuples_dict.py

# List example
fruits = ["apple", "banana", "cherry"]
fruits.append("orange")
print("Fruits List:", fruits)

# Tuple example
coordinates = (10.0, 20.0)
print("Tuple Coordinates:", coordinates)

# Dictionary example
student = {
    "name": "Waqar",
    "age": 22,
    "course": "Python"
}
print("Student Dictionary:", student)
```

✔ File 3: sets_frozensets.py

```
# class-03/sets_frozensets.py
```

```
# Set example (unordered, unique items)
```

```
unique_numbers = {1, 2, 2, 3, 4}
```

```
print("Unique Numbers Set:", unique_numbers)
```

```
# Adding to set
```

```
unique_numbers.add(5)
```

```
print("Updated Set:", unique_numbers)
```

```
# Frozenset (immutable set)
```

```
frozen = frozenset([10, 20, 30])
```

```
print("Frozenset Example:", frozen)
```
