**Write a program to demonstrate the use of lists, tuples, and dictionaries in a Python program.**

# List demonstration

fruits\_list = ["apple", "orange", "banana", "grape"]

print("Fruits List:", fruits\_list)

# Tuple demonstration

colors\_tuple = ("red", "green", "blue", "yellow")

print("Colors Tuple:", colors\_tuple)

# Dictionary demonstration

person\_info = {"name": "John", "age": 25, "city": "New York"}

print("Person Information Dictionary:", person\_info)

# Modify list, tuple, and dictionary

fruits\_list.append("mango")

# colors\_tuple[0] = "purple" # This will raise an error as tuples are immutable

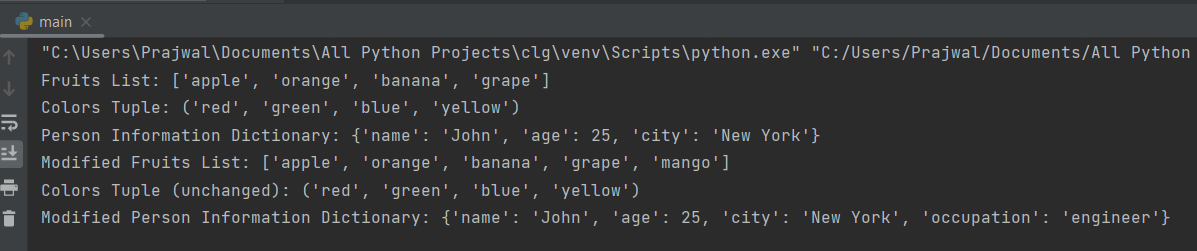
person\_info["occupation"] = "engineer"

# Print modified versions

print("Modified Fruits List:", fruits\_list)

print("Colors Tuple (unchanged):", colors\_tuple)

print("Modified Person Information Dictionary:", person\_info)

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