Lesson 04 Demo 05 Using YAML in Python for Data Serialization

Objective: To demonstrate how to use YAML in Python for data serialization, making data

more readable and easier to manage

Tools required: Linux terminal

Prerequisites: None

Steps to be followed:

1. Create a Python script for data serialization using YAML

2. Run the serialization script

Step 1: Create a Python script for data serialization using YAML

1.1 Run the following command to create a Python file: sudo nano serialize_simple.py

```
poojahksimplile@ip-172-31-36-118:~$ sudo nano serialize_simple.py
poojahksimplile@ip-172-31-36-118:~$
```

1.2 Add the Python script to serialize a dictionary into a YAML file in the serialize_simple.py file:

```
import yaml
```

```
# Step 2.1: Create a simple Python dictionary
data = {
   'title': 'YAML Serialization Example',
   'version': 1.0,
   'items': ['item1', 'item2', 'item3']
}

# Step 2.2: Serialize the dictionary to a YAML file
with open('example.yaml', 'w') as file:
   yaml.dump(data, file, default_flow_style=False)

print("Data has been serialized to 'example.yaml'")
```

Step 2: Run the serialization script

2.1 Use the following command to execute the Python file: python serialize_simple.py

```
poojahksimplile@ip-172-31-36-118:~$ python serialize_simple.py
Data has been serialized to 'example.yaml'
poojahksimplile@ip-172-31-36-118:~$
```

By following these steps, you have successfully demonstrated how to use YAML in Python for data serialization, making data more readable and easier to manage.