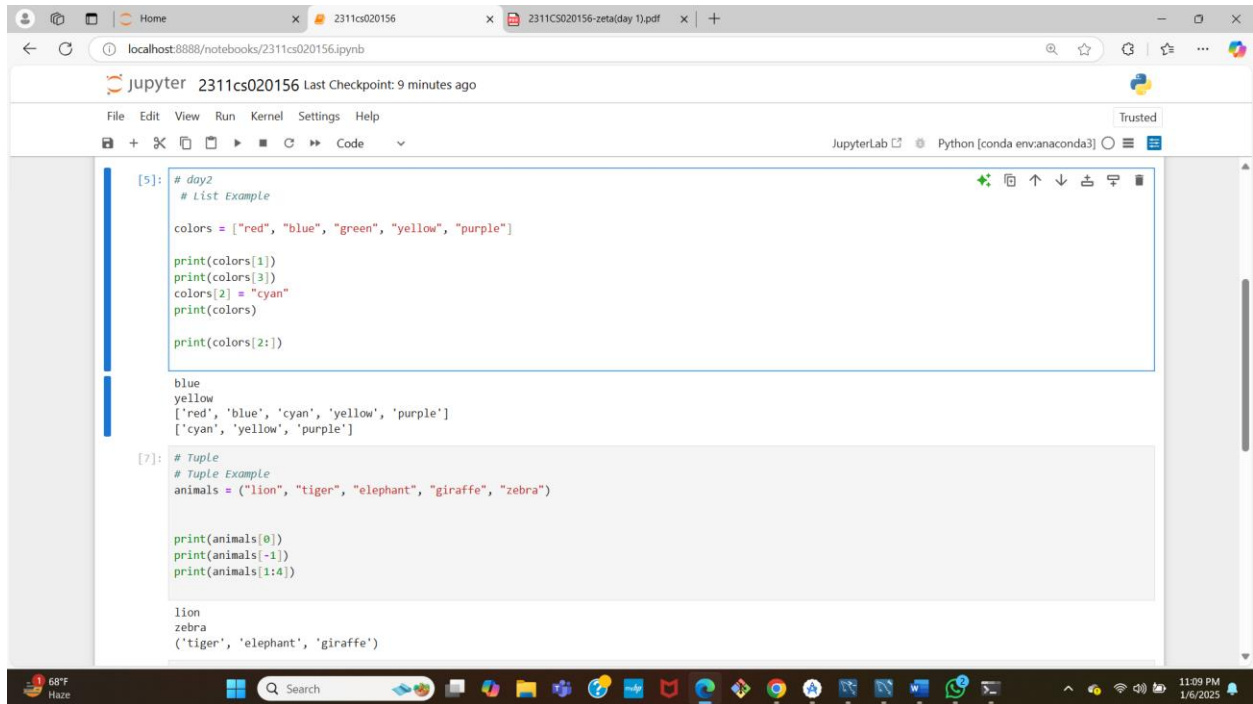


DAY 2

Create a List, tuple and Dictionary with 5 elements in it and how to access few elements based on the index. Try with different examples



The screenshot shows a JupyterLab interface with two code cells. The first cell, labeled [5], contains Python code for a list named 'colors' with elements 'red', 'blue', 'green', 'yellow', and 'purple'. It demonstrates indexing: colors[1] returns 'blue', colors[3] returns 'yellow', colors[2] is assigned 'cyan', and colors[2:] returns a new list ['cyan', 'yellow', 'purple']. The second cell, labeled [7], contains Python code for a tuple named 'animals' with elements 'lion', 'tiger', 'elephant', 'giraffe', and 'zebra'. It demonstrates indexing: animals[0] returns 'lion', animals[-1] returns 'zebra', and animals[1:4] returns a new tuple ('tiger', 'elephant', 'giraffe').

```
[5]: # day2
# List Example

colors = ["red", "blue", "green", "yellow", "purple"]

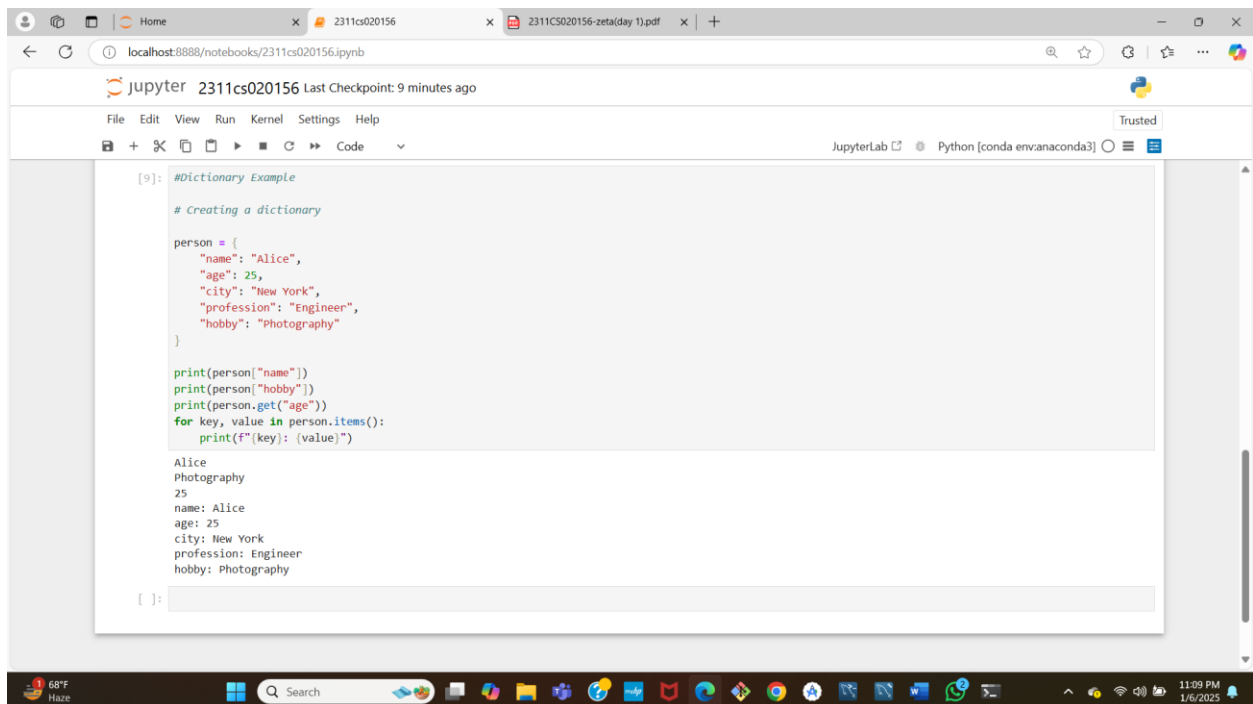
print(colors[1])
print(colors[3])
colors[2] = "cyan"
print(colors)
print(colors[2:])

blue
yellow
['red', 'blue', 'cyan', 'yellow', 'purple']
['cyan', 'yellow', 'purple']

[7]: # Tuple
# Tuple Example
animals = ("lion", "tiger", "elephant", "giraffe", "zebra")

print(animals[0])
print(animals[-1])
print(animals[1:4])

lion
zebra
('tiger', 'elephant', 'giraffe')
```



The screenshot shows a JupyterLab interface with a single code cell labeled [9]. It contains Python code for a dictionary named 'person' with keys 'name', 'age', 'city', 'profession', and 'hobby'. The values are 'Alice', 25, 'New York', 'Engineer', and 'Photography' respectively. The code demonstrates accessing values: person["name"] returns 'Alice', person["hobby"] returns 'Photography', person.get("age") returns 25, and a loop prints each key-value pair. The output shows the dictionary's string representation and the printed key-value pairs.

```
[9]: #Dictionary Example

# Creating a dictionary

person = {
    "name": "Alice",
    "age": 25,
    "city": "New York",
    "profession": "Engineer",
    "hobby": "Photography"
}

print(person["name"])
print(person["hobby"])
print(person.get("age"))
for key, value in person.items():
    print(f"{key}: {value}")

Alice
Photography
25
name: Alice
age: 25
city: New York
profession: Engineer
hobby: Photography

[ ]:
```