#### YASH KASARE 24

# → Strings in Python

```
# Assigning string to a variable
a = 'This is a string'
print (a)
b = "This is a string"
print (b)
c= '''This is a string'''
print (c)

This is a string
```

#### 

#### → Tuples in Python

#### → Dictionaries in Python

A Python dictionary is a data structure that stores the value in key: value pairs. Values in a dictionary can be of any data type and can be duplicated, whereas keys can't be repeated and must be immutable.

```
d = {1: 'Lorem', 2: 'Ipsum', 3: 'Dolerum'}
print(d)

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```

### Accessing Dictionary Items

```
d = { "name": "Alice", 1: "Python", (1, 2): [1,2,4] }
# Access using key
print(d["name"])
# Access using get()
print(d.get("name"))

Alice
    Alice
    Alice
```

Adding and Updating Dictionary Items

```
d = {1: 'Game', 2: 'of', 3: 'Thrones'}

# Adding a new key-value pair
d["age"] = 22

# Updating an existing value
d[1] = "Python dict"
print(d)

{1: 'Python dict', 2: 'of', 3: 'Thrones', 'age': 22}
```

#### Delete a Specific Item Using del

```
# Sample dictionary
my_dict = {
    "name": "John",
    "age": 25,
    "city": "New York"
}

# Print original dictionary
print("Original Dictionary:", my_dict)

# Delete an item by its key
del my_dict["age"]

# Print updated dictionary
print("Updated Dictionary:", my_dict)

Original Dictionary: {'name': 'John', 'age': 25, 'city': 'New York'}
    Updated Dictionary: {'name': 'John', 'city': 'New York'}
```

## → Delete Using .pop() Method

```
# Sample dictionary
my_dict = {
    "name": "John",
    "age": 25,
    "city": "New York"
}

# Print original dictionary
print("Original Dictionary:", my_dict)

# Remove an item and capture the removed value
removed_value = my_dict.pop("city")

# Print updated dictionary and the removed value
print("Updated Dictionary:", my_dict)
print("Removed Value:", removed_value)

Original Dictionary: {'name': 'John', 'age': 25, 'city': 'New York'}
    Updated Dictionary: {'name': 'John', 'age': 25}
    Removed Value: New York
```

#### → Delete All Items Using .clear()

```
# Sample dictionary
my_dict = {
```

```
"name": "John",
    "age": 25,
    "city": "New York"
}

# Print original dictionary
print("Original Dictionary:", my_dict)

# Clear all items from the dictionary
my_dict.clear()

# Print the empty dictionary
print("Cleared Dictionary:", my_dict)

The original Dictionary: ", my_dict)

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