Strings in Python (Parth Manoj Gajare AIDS - 15)

```
# 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
```

Lists in Python

→ Tuples in Python

```
tup = (1, "a", "string", 1+2)
print(tup)
print(tup[1])

→ (1, 'a', 'string', 3)
```

→ 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 = { "name": "Alice", 1: "Python", (1, 2): [1,2,4] }
```

```
print(d["name"])
# Access using get()
print(d.get("name"))

Alice
    Alice
    Alice
```

→ Adding and Updating Dictionary Items

→ Delete a Specific Item Using del

→ 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"
```

Start coding or generate with AI.