Python Tuple Examples

1. Basic Tuple

```
Code:
student = ("Sri", 31, "Student", "Python Full Stack")
print(student[0]) # Access name
print(student[-1]) # Access last item
Output:
Output:
Sri
Python Full Stack
2. Tuple with Different Data Types
Code:
profile = ("Sri", 31, ["Reading", "Coding"], ("Hyderabad", "India"))
print(profile[2][0]) # Reading
print(profile[3][1]) # India
Output:
Output:
Reading
India
3. Unpacking Tuples
Code:
(name, age, role) = ("Sri", 31, "Student")
print(name)
print(age)
print(role)
```

```
Output:
Output:
Sri
31
Student
4. Nested Tuples
Code:
education = (
  ("BSc", "Cyber Security"),
  ("Certification", "Python Full Stack"),
  ("Project", "Human Activity Recognition")
for degree, subject in education:
  print(degree, "->", subject)
Output:
Output:
BSc -> Cyber Security
Certification -> Python Full Stack
Project -> Human Activity Recognition
5. Tuples as Dictionary Keys
Code:
locations = {
  (17.3850, 78.4867): "Hyderabad",
  (28.7041, 77.1025): "Delhi"
```

```
}
print(locations[(17.3850, 78.4867)])
Output:
Output:
Hyderabad
6. Tuple Packing and Unpacking in One Go
Code:
student = "Sri", 31, "Cyber Security"
name, age, course = student
print(f"{name} is {age} years old and studies {course}.")
Output:
Output:
Sri is 31 years old and studies Cyber Security.
7. Tuple with Repetition & Count
Code:
subjects = ("Python", "HTML", "CSS", "Python", "Cyber Security", "Python")
print(subjects.count("Python")) # Count how many times
print(subjects.index("CSS")) # Find position
Output:
Output:
3
2
```