

Python Strings – Complete Study Material (Hands-On)

1. Working with strings:

Strings are sequences of characters written inside quotes.

Example:

```
name = "Rajesh"  
print(name)
```

2. Working with parts of a string (Indexing):

```
word = "Python"  
print(word[0])  
print(word[-1])
```

3. Length of a String:

```
print(len("Hello"))
```

4. Traversal using loops:

```
for ch in "Python":  
    print(ch)
```

5. Slices:

```
s = "Programming"  
print(s[0:5])  
print(s[3:])  
print(s[:6])
```

6. String Comparison:

```
print("apple" < "banana")
```

7. Strings are immutable:

```
# Not allowed: s[0] = 'H'
```

8. in / not in operators:

```
print("Py" in "Python")
```

9. Custom find function:

```
def my_find(s, ch):  
    for i in range(len(s)):  
        if s[i] == ch:  
            return i  
    return -1
```

10. Counting characters:

```
word = "banana"  
count = word.count("a")
```

11. Optional parameters:

```
def find_char(s, ch, start=0):  
    return s.find(ch, start)
```

12. Built-in find:

```
print("hello".find("e"))
```

13. split method:

```
print("a,b,c".split(","))
```

14. Cleaning strings:

```
print(" Hello ".strip())
```

15. format method:

```
print("My name is {} and I am {} years old".format("Rajesh", 25))
```