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1. [Apache Spark Professional Training with Hands On Lab Sessions](#)
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MODULE 6: PYTHON DEFINING FUNCTIONS

By www.HadoopExam.com

Note: These instructions should be used with the HadoopExam Apache Spark: Professional Trainings. Where it is executed and you can do hands on with trainer.

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1. Python String.
2. String and indexes
3. String Traversal
4. String traversal
5. Immutable String
6. Methods of String
7. String Comparison
8. File Read in Python

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String: string is a sequence, which means it is an ordered collection of other values. A string is a sequence of characters.

Example:

```
name="HadoopExam.com"
```

Step 1: Define string and use its indexes.

```
name = 'Work Done !'
name[0]
name[1]
```

Step 2: Finding length of the string

```
len(name)
name[11] # Error
name[len(name)-1] # Correct way
```

Step 3: Traversing the string

```
for c in name:
    print(c)
```

```
i=0
while i < len(name):
    print(name[i])
    i=i+1
```

Step 4: Slicing of String

```
name[3:7]
name[:3]
name[3:]
name[3:3]
name[:]
```

Step 5: String is Immutable

```
name[2]='e'
name= 'Yes that is possible'
```

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Step 6: Some sample methods of String

```
name.upper()
name.find('o')
name.find('E')
name.find('is')
```

Step 7: String in operator

```
'a' in name
'ye' in name
'No' in name
```

Step 8: Comparing two strings

```
name='john'
if name == 'john':
    print('Welcome to HadoopExam.com : ' + name)
```

```
name='QuickTechie.com'
if name < 'HadoopExam.com':
    print('Welcome, ' + name + ', comes before HadoopExam.com ')
elif name > 'Training4Exam.com':
    print('Your name ' + name + ', comes after Training4Exam.com ')
else:
    print('You are not matched '+ name)
```

sequence: An ordered collection of values where each value is identified by an integer index.

item: One of the values in a sequence.

Step 9: Reading a file

```
fin = open('c:/test/mywords.txt','r')
fin = open('c:\\test\\mywords.txt','r') #This syntax should also be correct
for line in fin:
    word = line.strip()
    print(word)
```

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