

| Cloudera Certification | Hortonworks Certification | Data Science | Cloud Computing | Analytics | SAS Certification | Java /J2EE Training | NoSQL | Deep/Machine Learning |
|------------------------|---------------------------|-----------------|-----------------|-----------------|-------------------|---------------------|-----------|-----------------------|
| Python Programming | Scala Programming | SQL for Finance | Azure Training | Cassandra NoSQL | Salesforce | Tableau | QlickView | Many More |

HadoopExam.com HadoopExam.com HadoopExam.com HadoopExam.com HadoopExam.com

1. [Apache Spark Professional Training with Hands On Lab Sessions](#)
2. [Oreilly Databricks Apache Spark Developer Certification Simulator](#)

PYTHON PROGRAMMING : MODULE 2

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.

1. Hadoop Training
2. Spark Training
3. HBase Training
4. MapR Developer
5. MapR HBase
6. CCA500 Certification
7. Spark Certification
8. EMC Data Science

Hadoop Specialization offer == 50% + 35% off

Hadoop Expert

~~52000INR~~ == 16900INR Only
~~\$1150~~ == \$373 Only
[Hadoop Specialization offer](#)

@ End of the Offer Prices will increase by 25%

Limited Time Offer (Less Than 5Days Remain)



[HORTONWORKS HDPCD \(Hadoop Developer Certification available with total 74 solved problem scenarios. Click for More Detail\)](#)

1. Python function
2. Arguments
3. Module
4. Define functions
5. Multiple Argument Functions
6. Local scope of variables
7. Return values of functions

| Cloudera Certification | Hortonworks Certification | Data Science | Cloud Computing | Analytics | SAS Certification | Java /J2EE Training | NoSQL | Deep/Machine Learning |
|------------------------|---------------------------|-----------------|-----------------|-----------------|-------------------|---------------------|-----------|-----------------------|
| Python Programming | Scala Programming | SQL for Finance | Azure Training | Cassandra NoSQL | Salesforce | Tableau | QlickView | Many More |

HadoopExam.com HadoopExam.com HadoopExam.com HadoopExam.com HadoopExam.com

What is function?

Ans: Function is a collection of multiple statements and you can find in almost all programming language. You will be declaring or defining once, and use it in future code.

Example of functions

```
print("HadoopExam.com"); #Where is the declarations
type(2);
```

Arguments and Return values: The name of the function is type/print. The expression in parentheses is called the argument of the function. It is common to say that a function takes one or more arguments and returns a result. The result is also called the return value. Some function may or may not return value.

Some more examples of function is

```
int(1.11111)
int(-1.1)
float(3**3) #Converting floating point numbers
float('7') #Converting string to flaot
str(2) #Converting integers to string
```

Mathematical functions: Python has a math module that provides most of the familiar mathematical functions.

Module: A module is a file that contains a collection of related functions. In module, we will be having functions and variables defined. If you want to access functions from a module, you have to use module name and function name separated by '.' This format is called dot notation.

Before we can use the functions in a module, we have to import it with an import statement.

```
import math #Importing math module

math.log10(100) # will be producing 2
math.pi
math.sqrt(100)
```

What is Composition?

Ans: One of the most useful features of programming languages is their ability to take small building blocks and compose them. Almost anywhere you can put a value, you can put an arbitrary expression, with one exception: the left side of an assignment statement has to be a variable name.

```
print(10+2**2-100+20)
print(math.log10(100)*2) # using function call as an argument
```

| Cloudera Certification | Hortonworks Certification | Data Science | Cloud Computing | Analytics | SAS Certification | Java /J2EE Training | NoSQL | Deep/Machine Learning |
|------------------------|---------------------------|-----------------|-----------------|-----------------|-------------------|---------------------|-----------|-----------------------|
| Python Programming | Scala Programming | SQL for Finance | Azure Training | Cassandra NoSQL | Salesforce | Tableau | QlickView | Many More |

HadoopExam.com HadoopExam.com HadoopExam.com HadoopExam.com HadoopExam.com

How to create your own function?

```
def printWelcomeMessage():
    print('Welcome ')
    print('Python ')
    print('Learning ')
    print('For ')
    print('Data Scientist ')

#Now call our function
printWelcomeMessage()
```

def: is a keyword that indicates that this is a function definition

printWelcomeMessage: name of the function.

Arguments: The empty parentheses after the name indicate that this function doesn't take any arguments.

header: The first line of the function definition is called the header.

Body: Other than header all other part is called body.

Note: To end the function, you have to enter an empty line.

Entire Program:

```
def printWelcomeMessage():
    print('Welcome ')
    print('Python ')
    print('Learning ')
    print('For ')
    print('Data Scientist ')

def printMessageMoreThanOnce():
    printWelcomeMessage()
    print()
    printWelcomeMessage()

printMessageMoreThanOnce()
```

Note: You have to create a function before you can run it.

Example: Functions with Arguments

```
#Single argument function
```

| Cloudera Certification | Hortonworks Certification | Data Science | Cloud Computing | Analytics | SAS Certification | Java /J2EE Training | NoSQL | Deep/Machine Learning |
|------------------------|---------------------------|-----------------|-----------------|-----------------|-------------------|---------------------|-----------|-----------------------|
| Python Programming | Scala Programming | SQL for Finance | Azure Training | Cassandra NoSQL | Salesforce | Tableau | QlickView | Many More |

HadoopExam.com HadoopExam.com HadoopExam.com HadoopExam.com HadoopExam.com

```
def doltTenTimes(value):
    print(10*value)

doltTenTimes(7)
doltTenTimes('John')
doltTenTimes(math.log10(100))
```

Multiple Argument Functions

```
def doAdd(a,b):
    print(a+b)

doAdd(2,3)
doAdd('Welcome', 'John')
doAdd(3, 'John') #Syntex error
```

Local Scope of Parameters

```
def printName(user1, user2):
    localMessage= u1 + ' and ' + u2
    print(localMessage)

# Parameter 'localMessage' will not be available once fuction completes.
```

Function with Return Values: All the functions, we have created does not return values for instance. add, doltTenTimes, printName etc. These all functions will only print messages.

```
from numpy import add

x=add(2,3)

y=math.sqrt(9)
```

Note: Generally you create functions, because you have to define once and use it many places.

| Cloudera Certification | Hortonworks Certification | Data Science | Cloud Computing | Analytics | SAS Certification | Java /J2EE Training | NoSQL | Deep/Machine Learning |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Python Programming | Scala Programming | SQL for Finance | Azure Training | Cassandra NoSQL | Salesforce | Tableau | QlickView | Many More |
| HadoopExam.com |

Select the Package or Products from the Below Combination and Get Great Discount

Customize Your Package : Following Products are available. You can customize your own package. Please select Products from below list and send an email to hadoopexam@gmail.com . So, our team will reply with discounted price.

| | | |
|--|--|--|
| <p>Recorded Trainings (With Hands On Lab)</p> <ol style="list-style-type: none"> Hadoop BigData Professional Training (3500INR/\$79) HBase (NoSQL) Professional Training (3500INR/\$79) Apache Spark Professional Training (3900INR/\$89 for a week 3500INR/\$75) Apache Oozie (Hadoop Workflow Engine) Training | <ol style="list-style-type: none"> Apache Spark Oreilly Developer Certification <p>Hortonworks Certification :</p> <ol style="list-style-type: none"> HDPCD : No Java | <p>EMC :Data Science Certification Practice Questions</p> <ol style="list-style-type: none"> EMC E20-007 EMC E20-065 |
| <p>Cloudera Certification Practice Question Bank</p> <ol style="list-style-type: none"> CCA50X : Hadoop Administrator CCA-175 Cloudera® (Hadoop and Spark Developer) CCP:DE575 : Cloudera® Data Engineer Certification CCA159 : Cloudera® Data Analyst Certification | <p>AWS : Amazon WebService Certification Practice Question</p> <ol style="list-style-type: none"> AWS Solution Architect : Associate AWS Solution Architect: Professional AWS Developer : Associate AWS Sysops Admin : Associate | <p>SAS Certffication Practice Questions</p> <ol style="list-style-type: none"> SAS Base A00-211 SAS Advanced A00-212 SAS Analytics : A00-240 SAS Administrator : A00-250 |
| <p>MapR Hadoop/BigData Certification Practice Questions</p> <ol style="list-style-type: none"> MapR Hadoop Developer Certification MapR HBase NoSQL Certification MapR Spark Developer Certification | <p>Microsoft Azure Cloud Certification</p> <ol style="list-style-type: none"> Azure 70-532 Azure 70-533 | <p>Oracle Certification Practice Questions</p> <ol style="list-style-type: none"> Java 1z0-808 1z0-060 (Oracle 12c) 1z0-061 (Oracle 12c) |

DON'T FORGET TO SUBSCRIBE FOR UPDATE ON PRODUCTS

[Subscribe](#)

[Request an Exam or Training](#)

| Cloudera Certification | Hortonworks Certification | Data Science | Cloud Computing | Analytics | SAS Certification | Java /J2EE Training | NoSQL | Deep/Machine Learning |
|------------------------|---------------------------|-----------------|-----------------|-----------------|-------------------|---------------------|-----------|-----------------------|
| Python Programming | Scala Programming | SQL for Finance | Azure Training | Cassandra NoSQL | Salesforce | Tableau | QlickView | Many More |

HadoopExam.com HadoopExam.com HadoopExam.com HadoopExam.com HadoopExam.com

HadoopExam Learning Resource provides the following material for the Advanced Technologies.
Please visit www.HadoopExam.com for more detail this is just a few products from portfolio.

Price start for training with Just \$79/3500INR

| | | | | |
|---|---|---|---|---|
|  <p>Apache Spark Professional Training with HandsOn Session + Certification Material</p> |  <p>Hadoop Professional Training with HandsOn Session + Certification Material</p> |  <p>HBase Professional Training with HandsOn Session + Certification Material</p> |  <p>Certification Material</p> |  <p>Certification Material</p> |
|  <p>Certification Material</p> |  <p>Certification Material</p> |  <p>Certification Material</p> |  <p>Certification Material</p> |  <p>Certification Material</p> |