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## PYTHON INSTALLATION: BASICS OF PYTHON PROGRAMMING

By [www.HadoopExam.com](http://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. Installing Python
2. HandsOn with Python

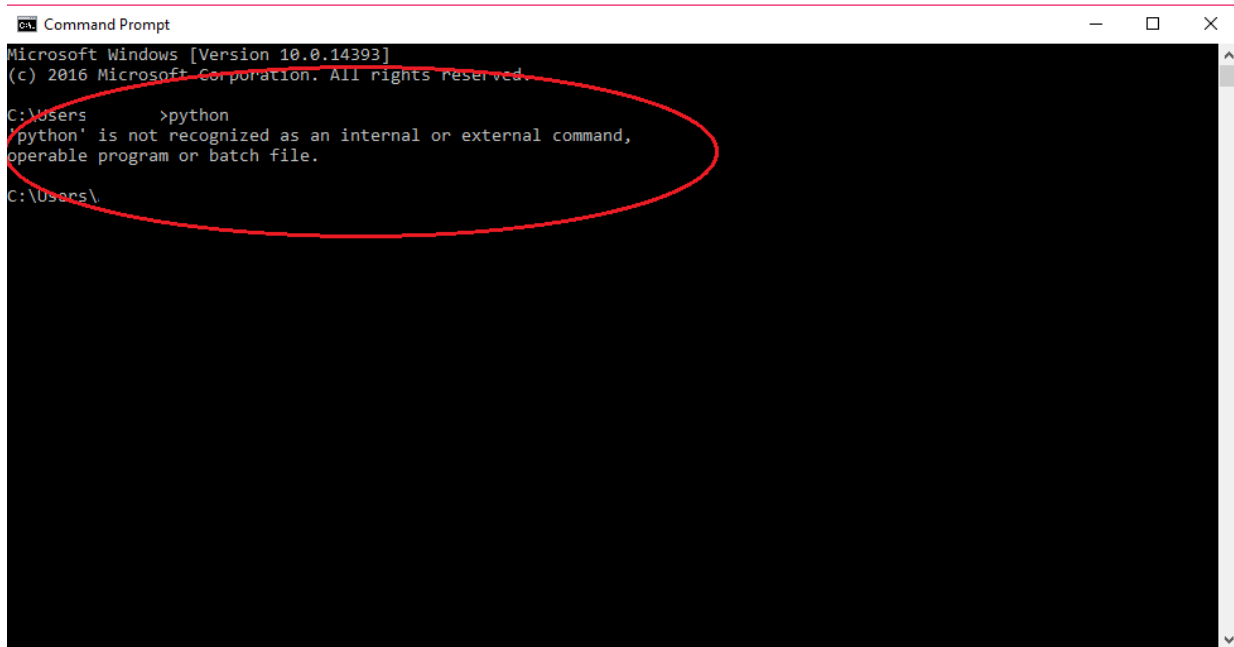
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## URL for All Training Sessions

<http://python.training4exam.com>

**Step 1:** Check Python is not installed on your windows OS. In command prompt.



```
Command Prompt
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

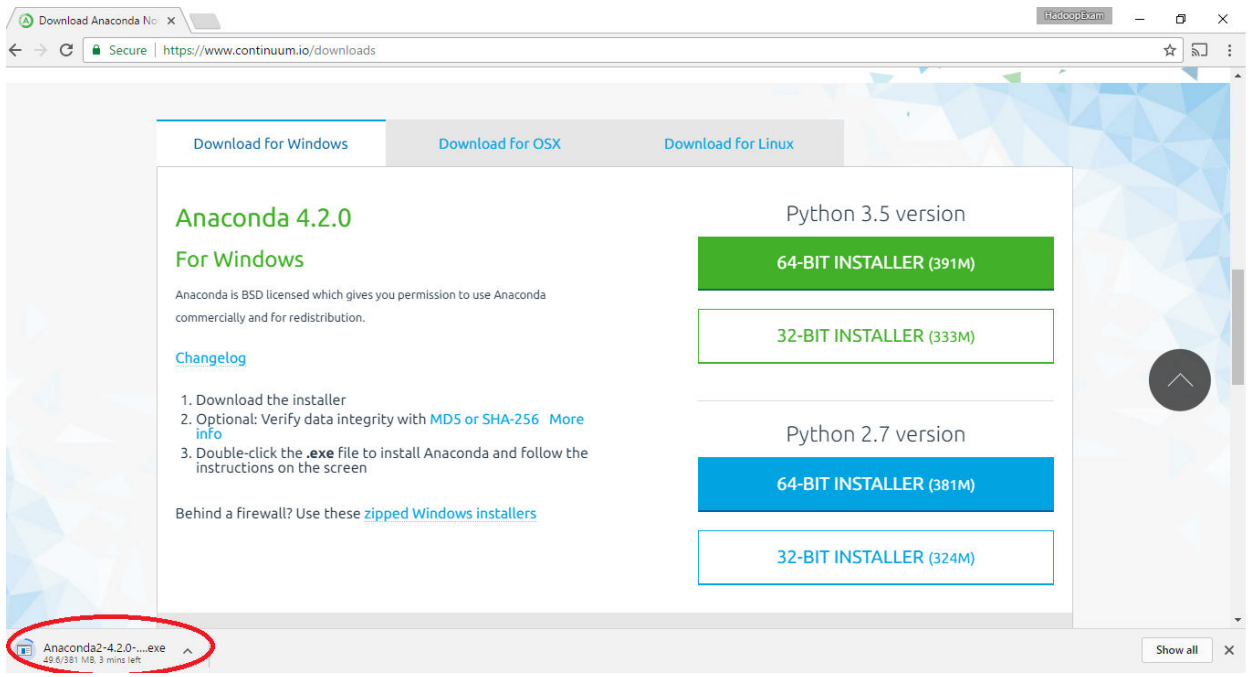
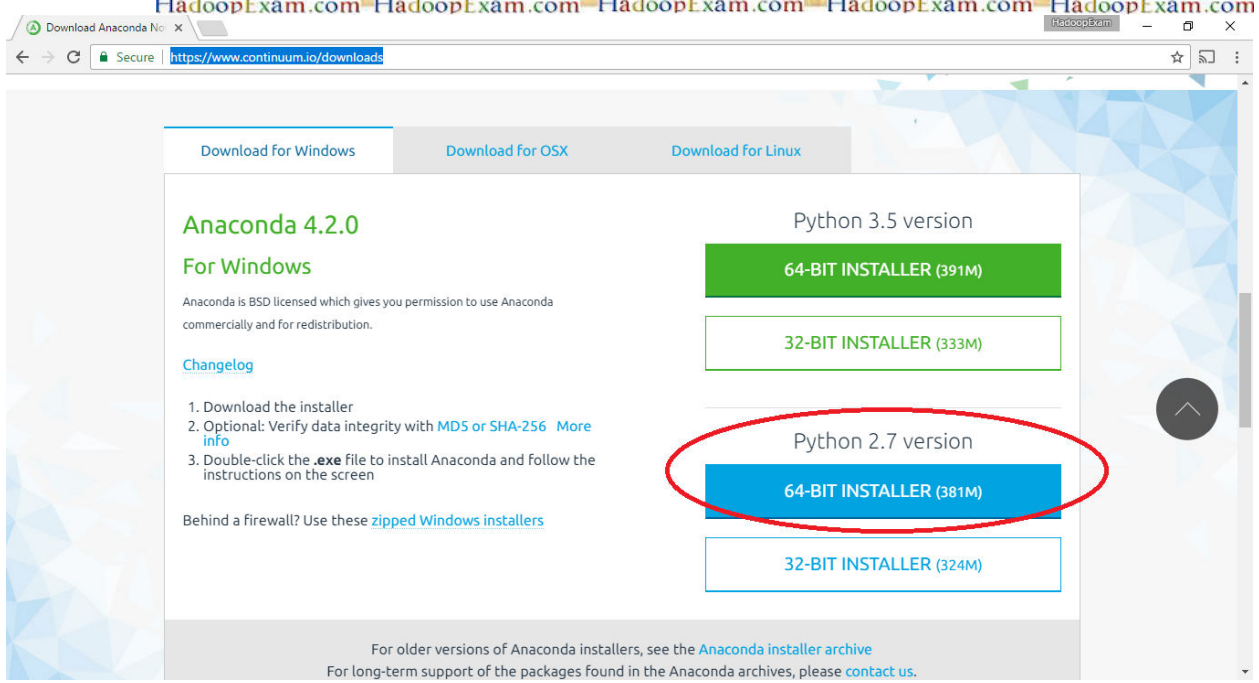
C:\Users\ >python
'python' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\
```

**Step 2:** Download anaconda

<https://www.continuum.io/downloads>

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**Step 3:** Now install Python on your windows machine.

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Anaconda2 4.2.0 (64-bit) Setup




## Welcome to Anaconda2 4.2.0 (64-bit) Setup

Setup will guide you through the installation of Anaconda2 4.2.0 (64-bit).

It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.

Click Next to continue.

Anaconda2 4.2.0 (64-bit) Setup



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Please review the license terms before installing Anaconda2 4.2.0 (64-bit).

Press Page Down to see the rest of the agreement.

```

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**Anaconda2 4.2.0 (64-bit) Setup**

**Choose Install Location**

Choose the folder in which to install Anaconda2 4.2.0 (64-bit).

Setup will install Anaconda2 4.2.0 (64-bit) in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.

Destination Folder

C:\Users\hadoopexam\Anaconda2 Browse...

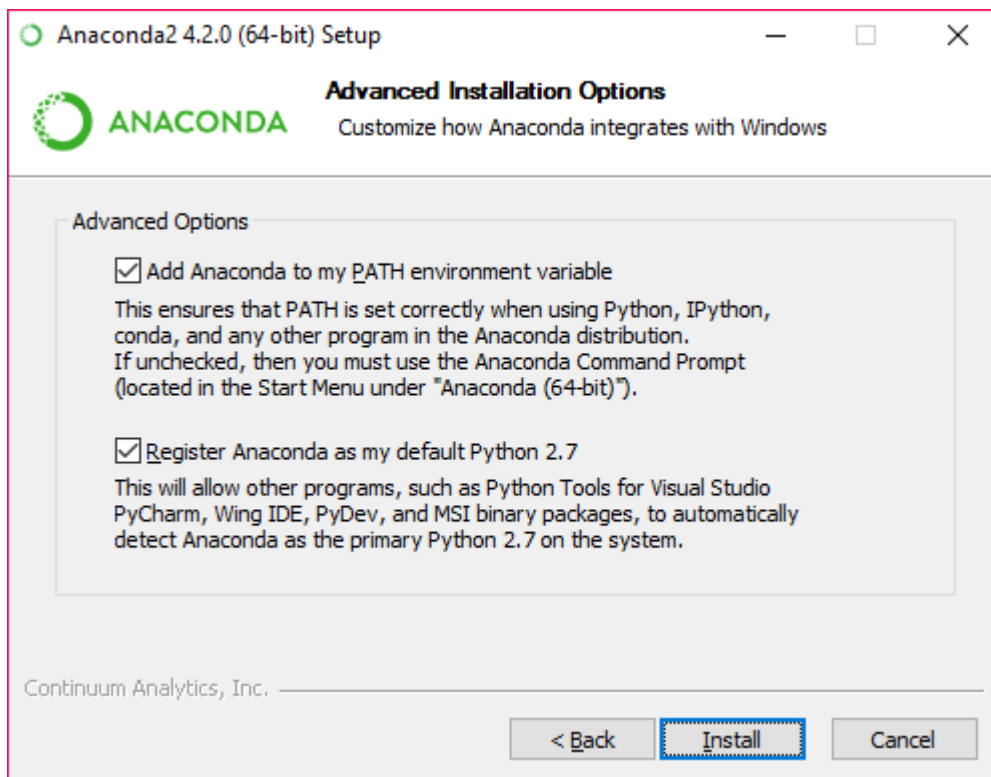
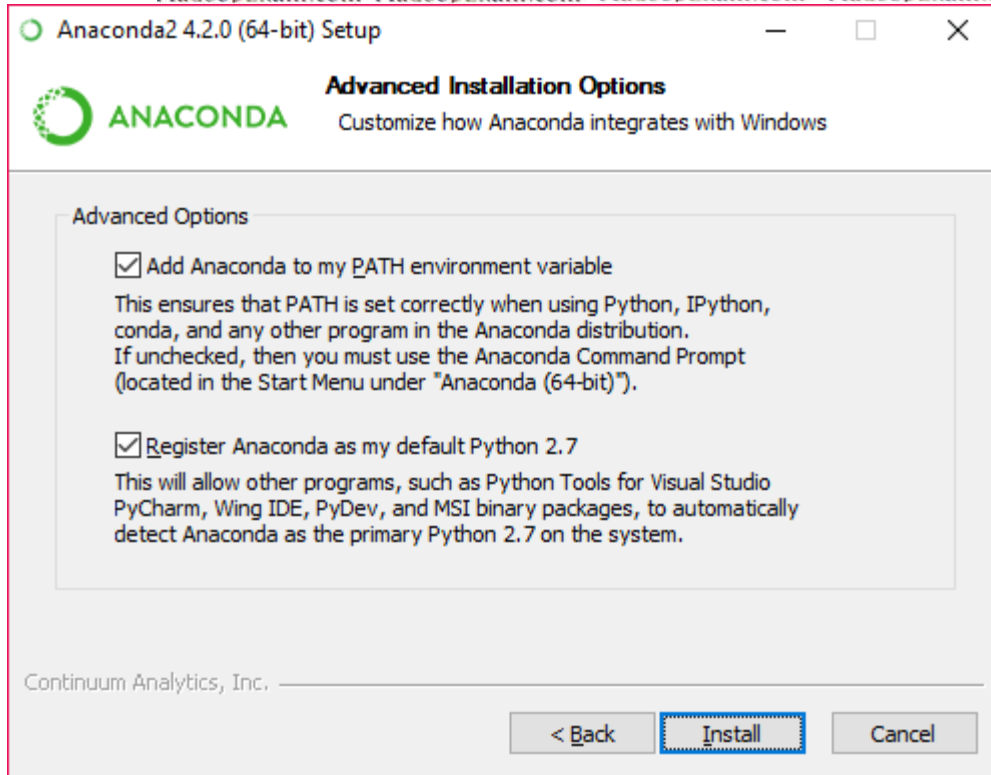
Space required: 1.8GB  
Space available: 452.6GB

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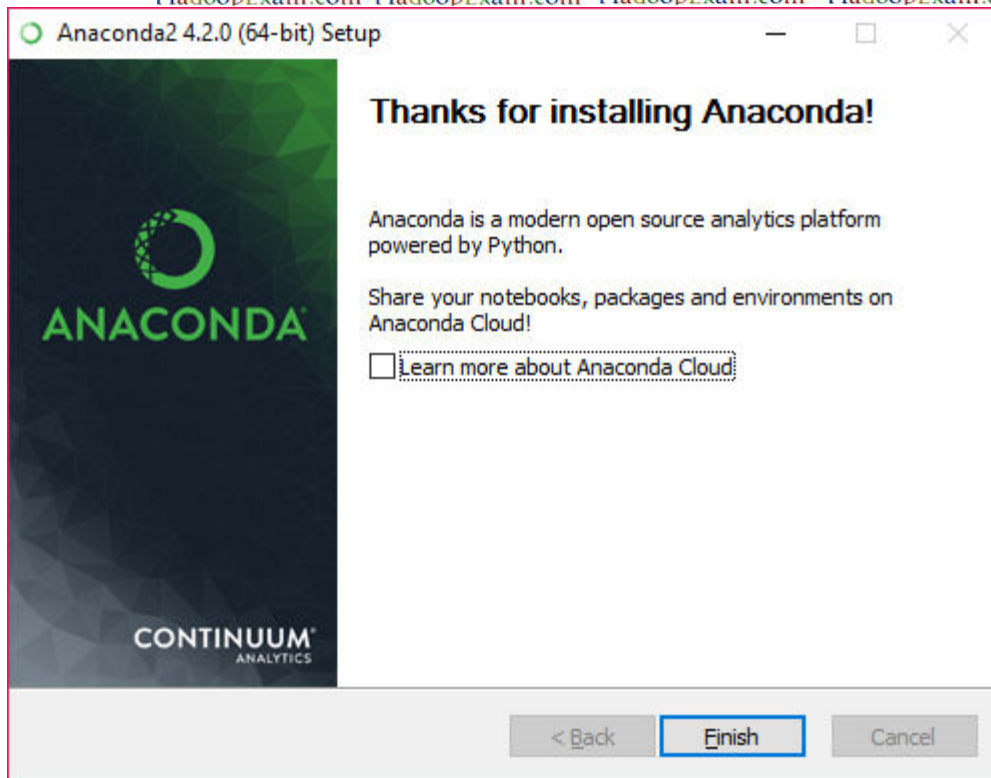
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**Step 4:** Now check once installation is done.

```

Command Prompt - python
Microsoft Windows [Version 10.0.14393]
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C:\Users\Ashish>python
Python 2.7.12 [Anaconda 4.2.0 (64-bit)] (default, Jun 29 2016, 11:07:13) [MSC v.1500 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
Anaconda is brought to you by Continuum Analytics.
Please check out: http://continuum.io/thanks and https://anaconda.org
>>>

```

**Step 5:** Basic Introduction to Python.

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**Functions:** Python has lots of pre-made functions, that you can use right now, simply by 'calling' them. '

```
print ('Hello HadoopExam.com , I am on way to become Data Scientist')
print "Hello HadoopExam.com , I am on way to become Data Scientist" #Python 2 Syntax
```

### Arithmetic operations

```
100+200
102/2
20.0/2
```

### Exponential operations using \*\*

```
3**3
```

### Finding Data Types:

```
type(100)
type('Hello Data Scientist')
type("Hello Data Scientist")
type(80.0/2)
type('2')
```

**Values in Python:** All below are values.

```
2, 'Hello Data Scientist', "Hello Data Scientist", '2'
```

**Important Note:** Comma separated values are converted into sequence of integers and do not considered as a single number.

```
1,00,000
```

**Variable:** Variable is a name that refers to a value. For example

```
webSiteName='HadoopExam.com'
print webSiteName
```

**Valid Variable Names and assignment Statement:** Assign values to a variable

```
webSiteName='HadoopExam.com'
message="Welcome to Python Learning for Data Scientist : "
print message + webSiteName
```



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**Important Notes:** Variable names can be as long as you like. They can contain both letters and numbers, but they can't begin with a number. It is legal to use uppercase letters, but it is conventional to use only lower case for variables names.

#### Invalid Variable names:

```
1name='hadoopexam'
name@="hadoopexam"
try='hello' #Keyword used
```

#### What is Expression in Python?

**Ans:** An expression is a combination of values, variables, and operators.

Examples

```
webSiteName + ' Welcome to Python Learning for Data Scientist' # Variable + value
welcome= webSiteName + ' Welcome to Python Learning for Data Scientist : ' #Assignment statement
print(welcome) #Print statement
```

#### String Operations

```
'Welcome to ' + ' HadoopExam.com' # Use + operator for String concatenation
```

#### Another way

```
name='HadoopExam.com'
message='Hello '
message+name + ' Welcome to Python Learning for Data Scientist'
```

#### Use \* operator for String repetitions

```
'HadoopExam , '*7
```

#### Use '#' for Comment

```
'HadoopExam.com '*7 # repeat name 7 times
```

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