

Coursera IBM Data Science Final

Introduction

This file serves as the final exam for the Coursera IBM Data Science Certificate. The file is produced in Python 3 based on guidance from the course.

The following represent the most common Data Science languages (computer codes) from many possible choices:

1. Python
2. SQL
3. R
4. C/C++
5. Java
6. JavaScript
7. Julia
8. Scala

The following libraries are often associated with data science:

1. Matplotlib
2. NumPy
3. Pandas
4. Plotly
5. Keras
6. Seaborn
7. Scikit-learn
8. Tensorflow

The following table provides several data science tools, in addition to those already mentioned in the previous questions:

1. Apache Spark
2. Hadoop
3. Tableau
4. Excel
5. Weka
6. SPSS
7. NLTK

Examples of arithmetic expressions:

$$\begin{aligned}1 + 1 &= 2 \\2 * 2 &= 4 \\3^2 &= 9\end{aligned}$$

In [14]: *# Code to perform arithmetic:*

```
x = 4;  
y = 2;  
print (x + y)  
print (x * y)
```

6
8

In [27]: *# Convert minutes to hours*

```
def conversion(minutes):  
    return minutes / 60  
  
minutes = 150  
hours = conversion(minutes)  
print (hours)
```

2.5

Objectives:

1. Create Jupyter Notebook
2. Insert code and markdown cells
3. Share via Github

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In []: