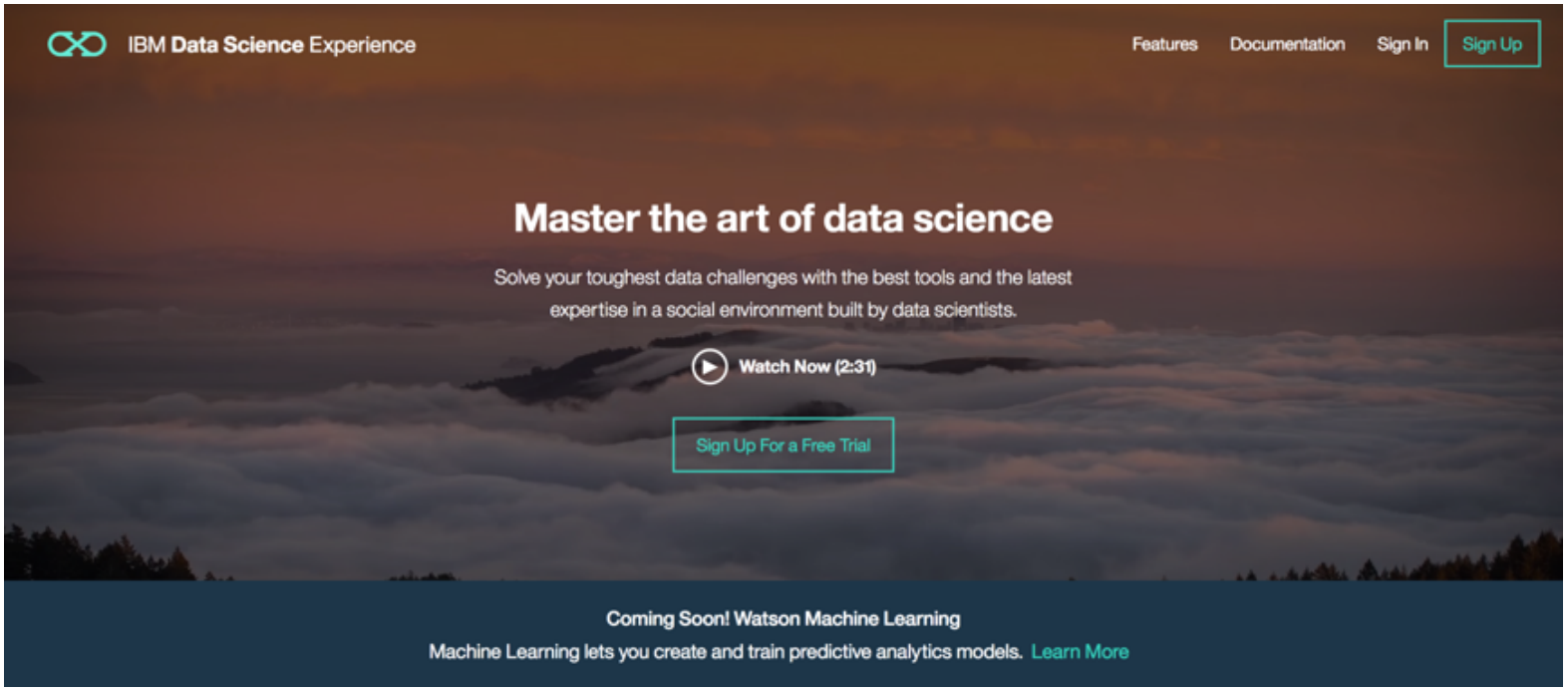
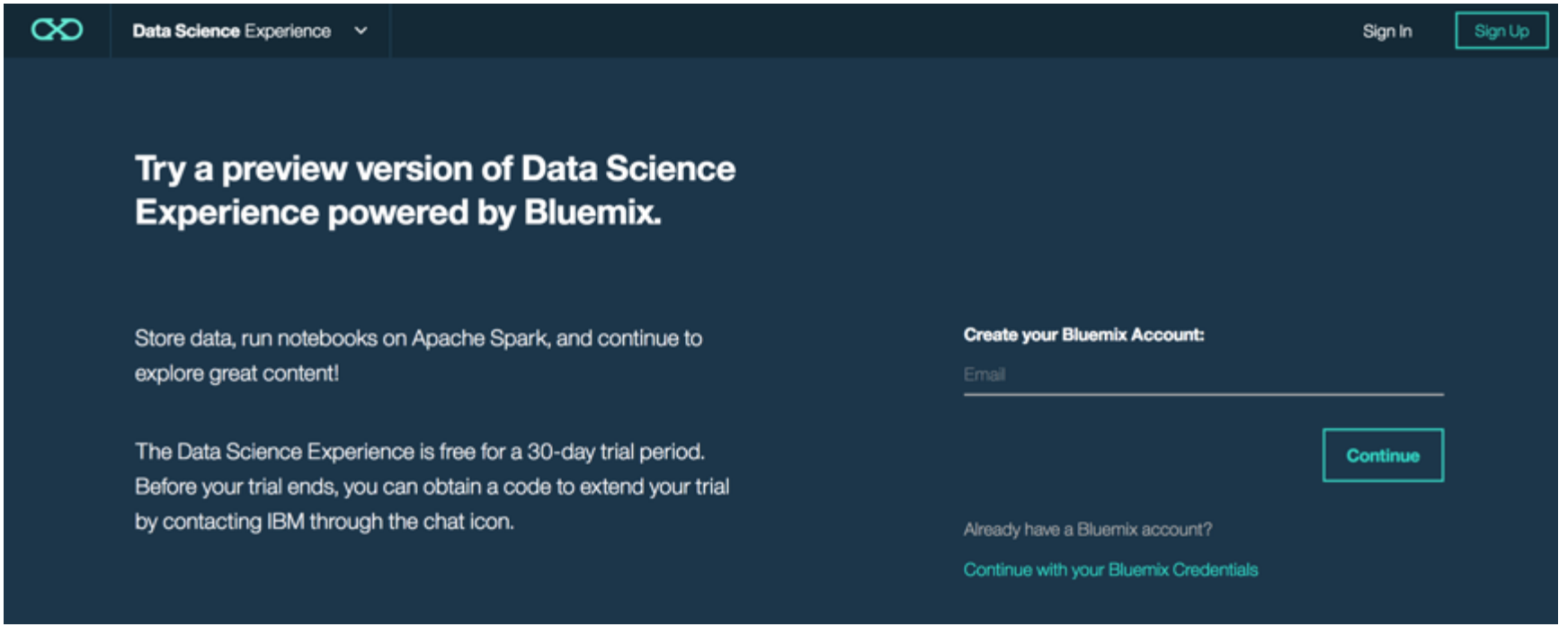
# Setup the ApacheSpark and Jupyter based Data Science Experience Workbench

1. Open the following URL http://datascience.ibm.com/

2. Click on Sign-Up


IBM Data Science Experience
Features
Documentation
Sign In
Sign Up
Master the art of data science
Solve your toughest data challenges with the best tools and the latest expertise in a social environment built by data scientists.
Watch Now (2:31)
Sign Up For a Free Trial
Coming Soon! Watson Machine Learning
Machine Learning lets you create and train predictive analytics models. Learn More




3. Click on “Sign in with your IBM ID"

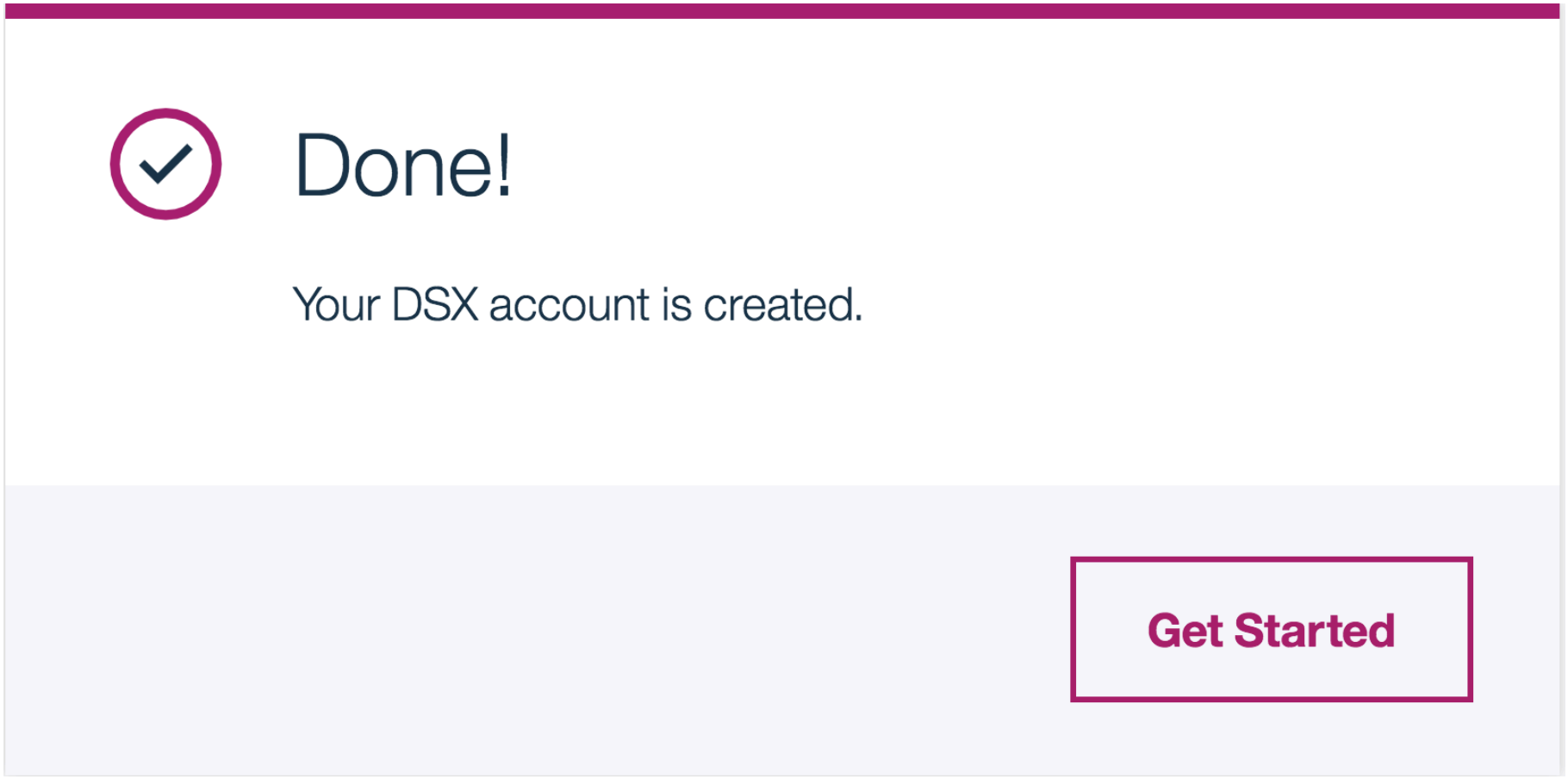
4. Login with you Bluemix credentials if asked

5. Click on “Sign up for DSX”

6. Leave "Organization" and "Space" as is and click on "Continue"

7. Wait for a couple of minutes until your account is being setup

9. Congratulations, your environment is ready, click on "Get Started"



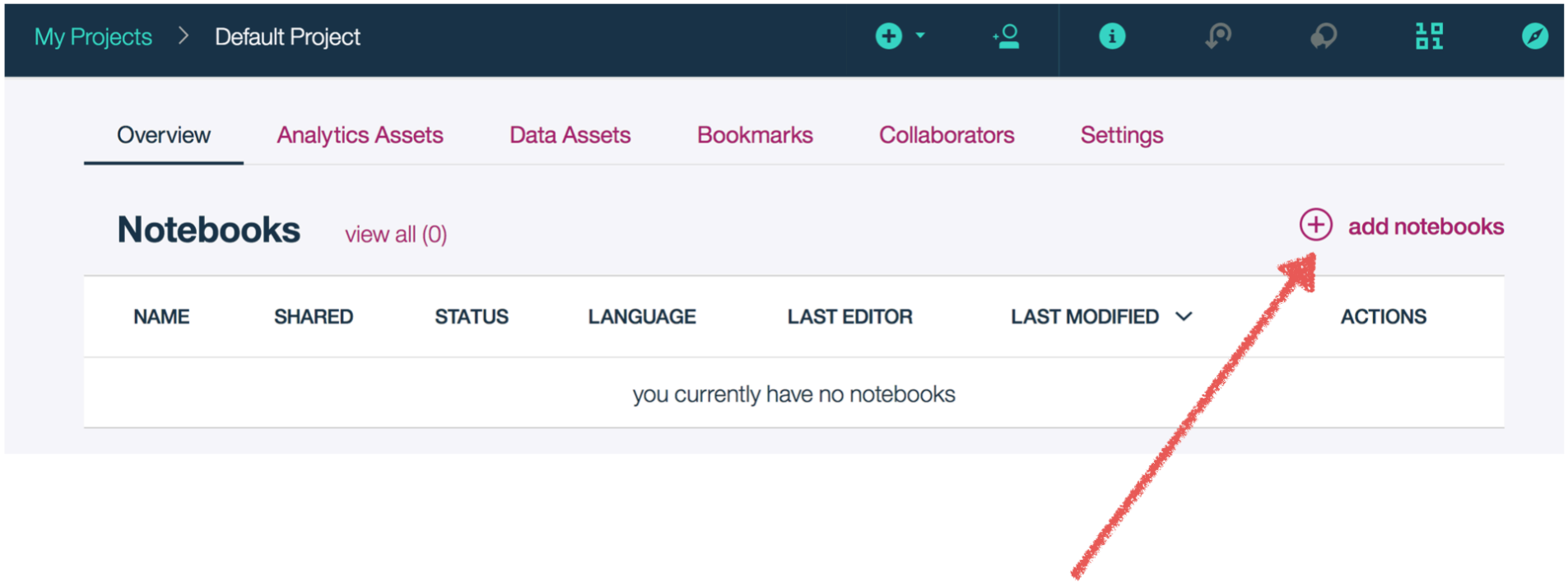

**Run a sample notebook**

1. First, click on the menu button top left:

2. Click on "My Projects"

3. Click on "Default Project"

4. Click on “add notebooks”




5. Click on “From URL”


6. Enter the necessary information

# Create Notebook

Blank From File From URL

**Name***

*Type Notebook Name here*

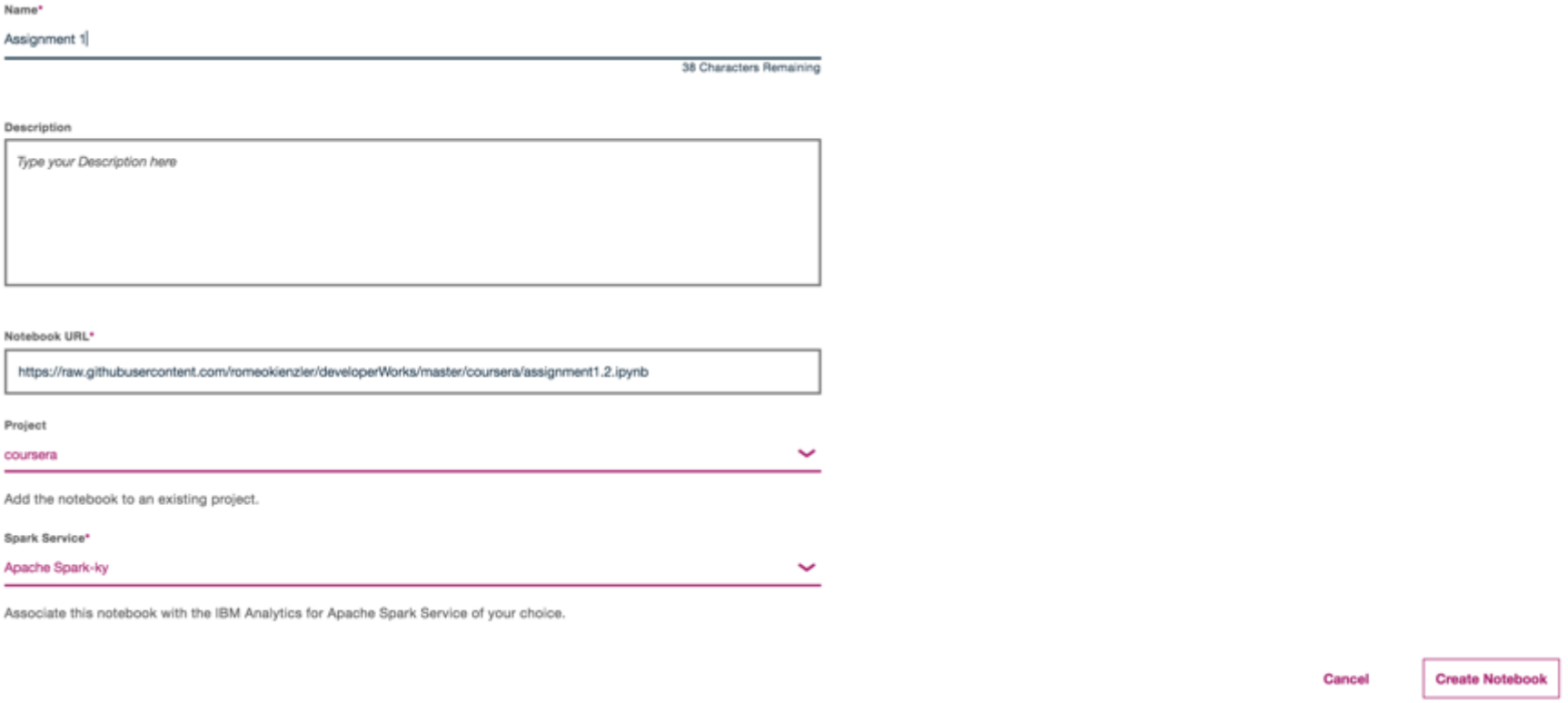
**Description**

*Type your Description here*

**Notebook URL***

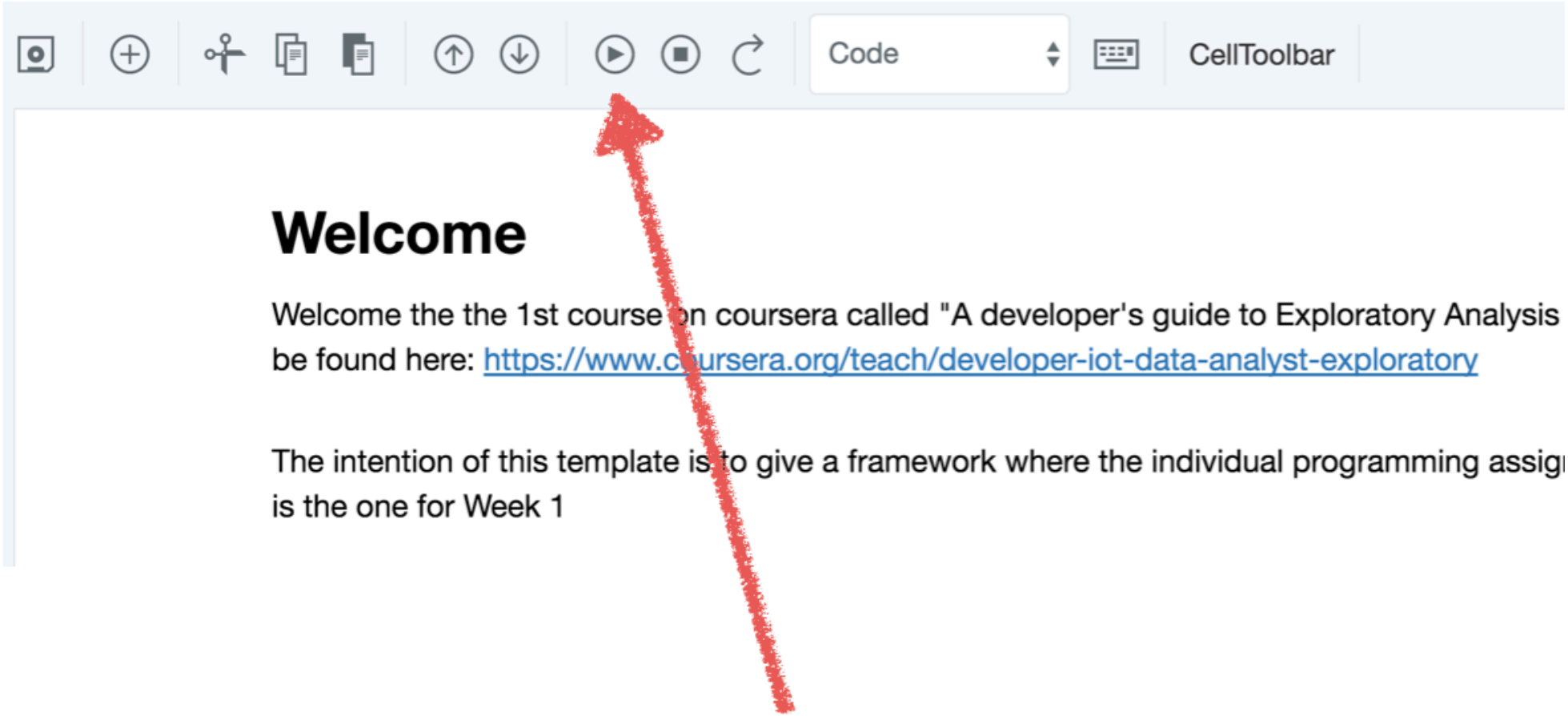
*Remote notebook served by HTTP or HTTPS*

- Type “Assignment 1” as name
- Paste the following URL as “Notebook URL”: https://raw.githubusercontent.com/romeokienzler/developerWorks/master/coursera/assignment1.2.ipynb
- Now click on “Create Notebook”

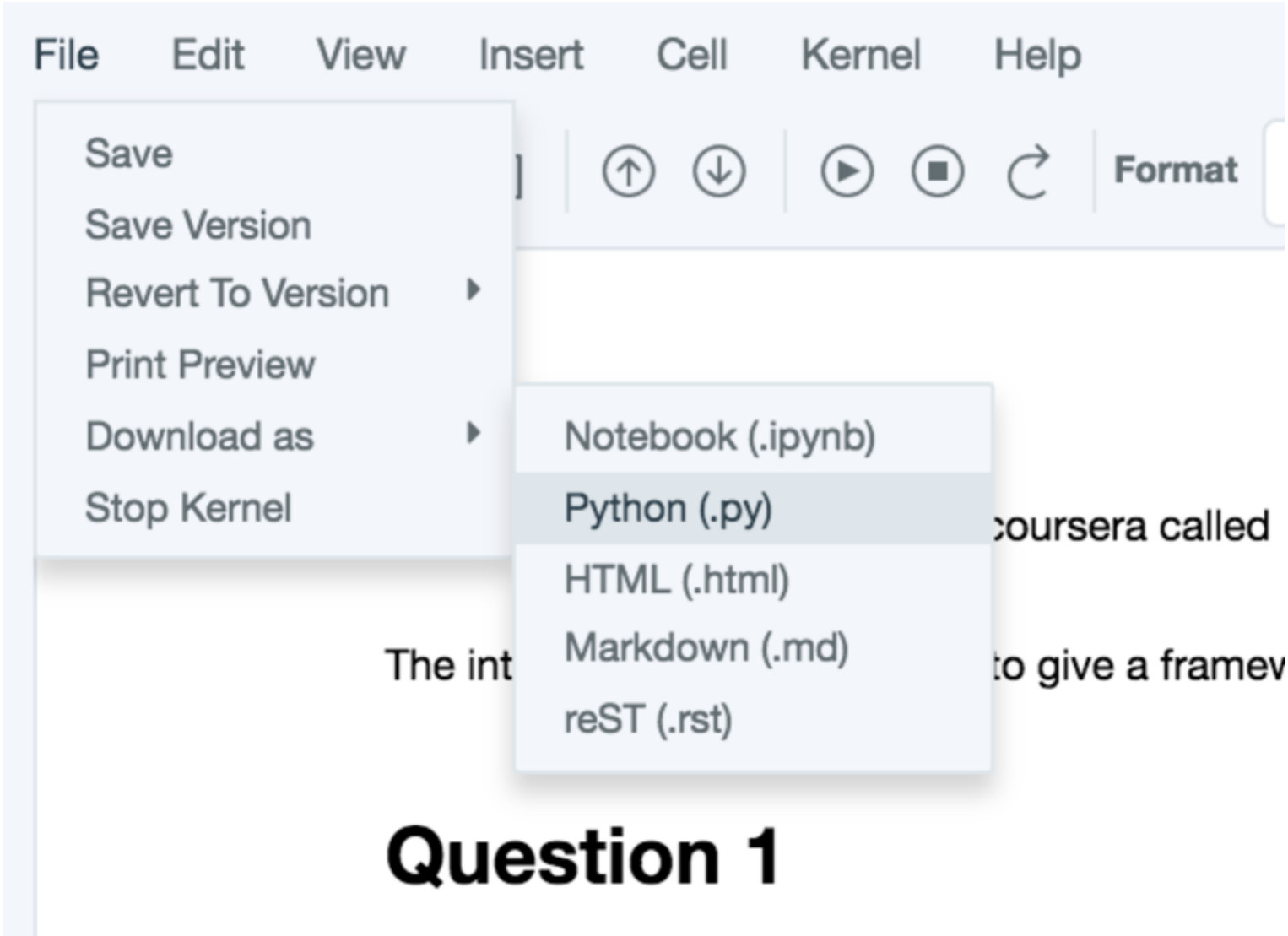



- Click on the run button several times. On each click a cell will execute. When the 'print assigmnent1(sc)' executes you should see a result of 100.

Hint: Shift-Enter is your friend


Code
CellToolbar
Welcome
Welcome the the 1st course on coursera called "A developer's guide to Exploratory Analysis
be found here: https://www.coursera.org/teach/developer-iot-data-analyst-exploratory
The intention of this template is to give a framework where the individual programming assig
is the one for Week 1

- Click on “File->Download as->Python”


File
Edit
View
Insert
Cell
Kernel
Help
Save
Save Version
Revert To Version
Print Preview
Download as
Stop Kernel
Format
Notebook (.ipynb)
Python (.py)
HTML (.html)
Markdown (.md)
reST (.rst)
coursera called
The int
to give a framev
Question 1

- Save the file as “assignment1.2.py”

```
1
2  # coding: utf-8
3
4  # # Welcome
5  # Welcome the the 1st course on coursera called "A developer's
   Analysis of IoT Sensor Data" which can be found here:
   https://www.coursera.org/teach/developer-iot-data-analyst-expl
6  #
7
8  # The intention of this template is to give a framework where
   programming assignments can be implemented. This is the one fo
9
10 # # Question 1
11 # Below you see some ApacheSpark code written in Python which
   the auto grader of coursera.org. You don't have to change code
   we want you to do is export this notebook as python code so th
   assess it. This is an exercice ment to make sure the submissio
   your side.
12 #
13 # PLEASE DON'T ADD ANY CODE OUTSIDE THE assignment1 FUNCTION
14
15 # In[1]:
16
17 def assignment1(sc):
18     rdd = sc.parallelize(range(100))
19     return rdd.count()
20
```

# Submit assignment1.2.py to the grader

- Open the Grader Tab as in the previous example
- Submit assignment1.2.py to the grader