Assisted Practice 12.3: Inheritance

Problem Scenario: Write a program to demonstrate inheritance using classes, objects, and methods.

Objective: In this demonstration, we will learn how to work with inheritance.

Expected Output:
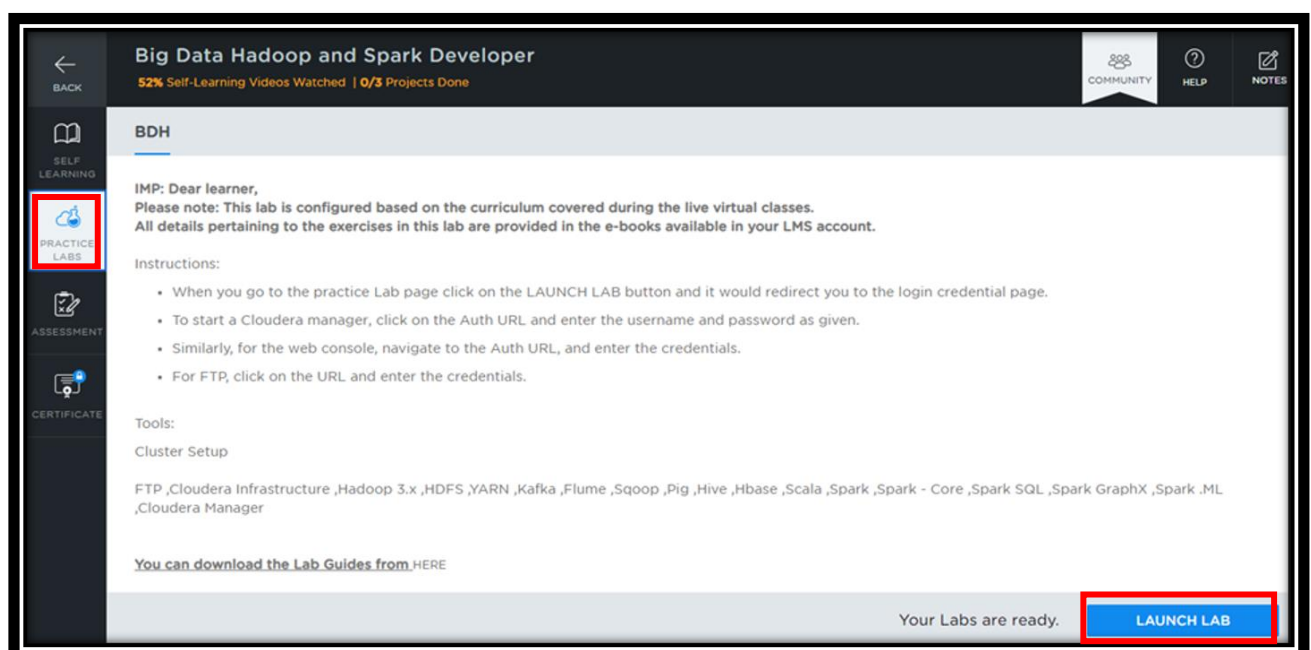
Friend1 name is: Jenny

Friend2 name is: Adam

Steps to Perform:
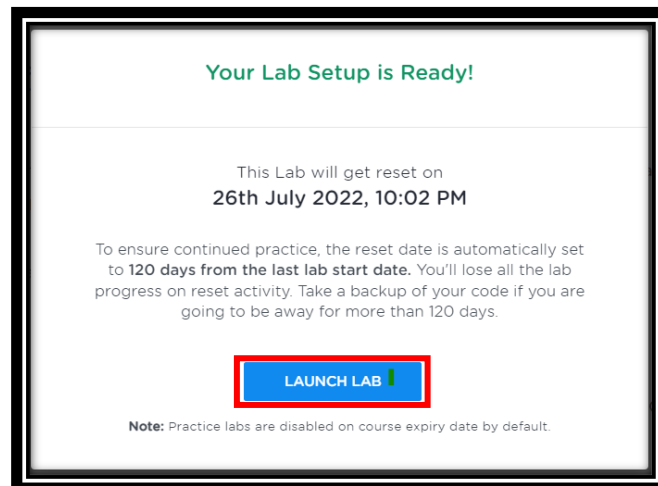
Step 1: Log in to your LMS account

Step 2: Open the course "**Big data Hadoop and Spark developer**"

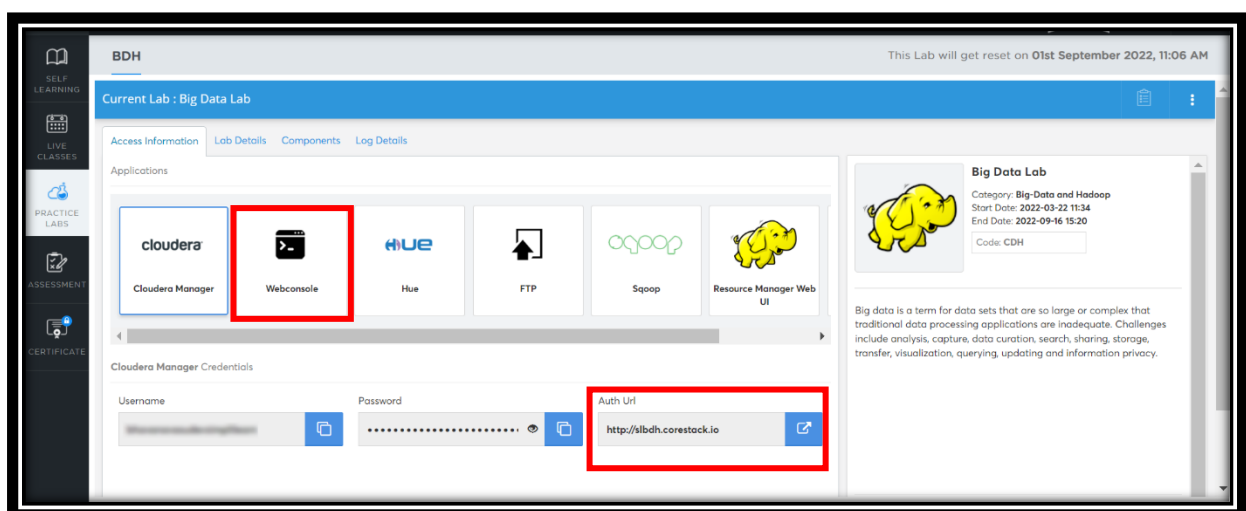(Note: The course name reflects depending on the program purchased.)

Step 3: On the left side, click on the "**PRACTICE LABS**" tab and click on the "**LAUNCH LAB**" button

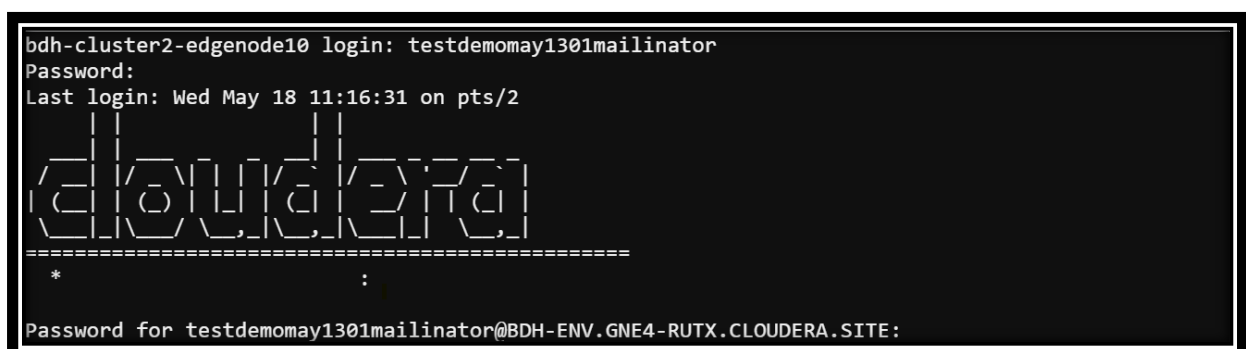**Step 4:** Again, click on the "**LAUNCH LAB**" button

STEP 5: Click on "**Webconsole**" and click on the "**Auth Url**"

Step 6: Copy the "**Username**" and the "**Password**" provided to log in to the Web console

Step 7: Paste the "**Username**" and the "**Password**" on the console and click on Enter

Note: The password will not be visible when pasted on the console.

Step 8: Create a python file

Command:

vi inhertance.py

The below screen appears:

Step 9: Perform the tasks

9.1   Create two base classes with the names friend1 and friend2 respectively

Command:

```
class Friend1:

  friend1name = ""

  def friend1Name(self):

    print("Hey I am friend1, and my name is: ",self.friend1name)

class Friend2:

  friend2name = ""

  def friend2(self):

    print("Hey I am friend2, and my name is: ",self.friend2name)
```

9.2   Create a derived class with the name friend3

Command:

```
class Friend3(Friend2,Friend1):

  def Friends(self):

   print("Friend1  name is :", self.friend1name)

   print("Friend2  name is :", self.friend2name)
```

9.3   Create the objects of the derived class and retrieve the attributes of the base class

Command:

```
obj = Friend3()

obj.friend1name = "Jenny"

obj.friend2name = "Adam"

obj.Friends()
```

```
class Friend1:
  friend1name = ""
  def friend1Name(self):
   print("Hey I am friend1, and my name is : ",self.friend1name)

class Friend2:
  friend2name = ""
  def friend2(self):
   print("Hey I am friend2, and my name is : ",self.friend2name)

class Friend3(Friend2,Friend1):
  def Friends(self):
   print("Friend1  name is :", self.friend1name)
   print("Friend2  name is :", self.friend2name)

obj = Friend3()
obj.friend1name = "Jenny"
obj.friend2name = "Adam"
obj.Friends()
~
```

9.4 Run the Python script to check the output

Command:

python3 inheritance.py

```
[testdemomay1301mailinator@bdh-cluster2-edgenode10 ~]$ python3 inheritance.py
Friend1  name is : Jenny
Friend2  name is : Adam
[testdemomay1301mailinator@bdh-cluster2-edgenode10 ~]$ 
```