

Setting up your cloud learning environment – Pre-Req

The tools you will need to use to learn to code will all be on the internet or cloud as they say now. All you need is a web browser, like google chrome or firefox.

In your web browser

NOTE: You can create new ones just for class if you want.

Create a Google Gmail at

<http://mail.google.com>.

Create GitHub Account

<https://github.com>

Setting up your cloud learning environment – Eclipse-Che

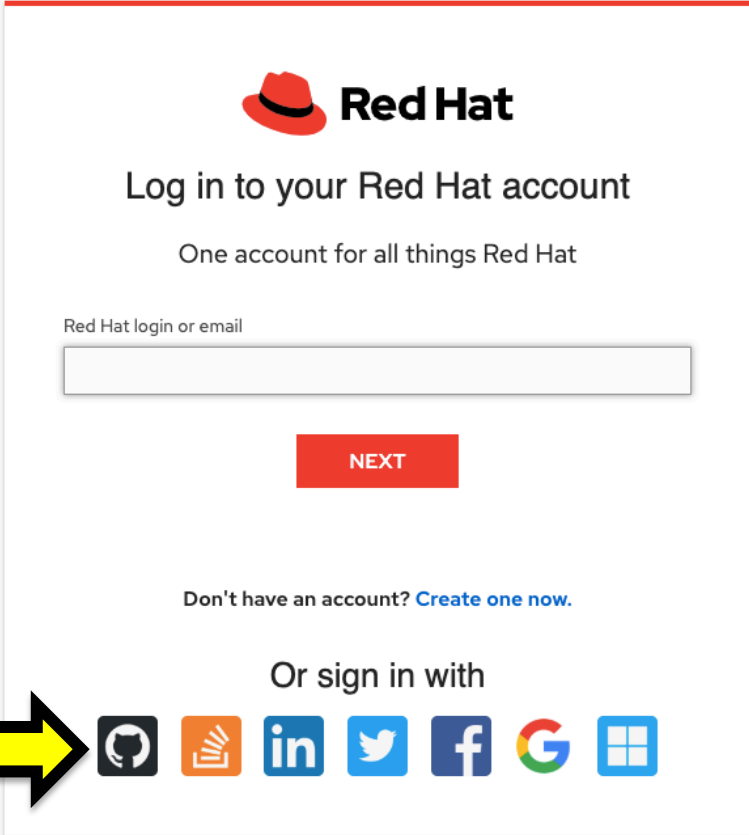
Next Create Red Hat Account for Eclipse-Che Python Environment

In web browser goto:

<https://che.openshift.io>



NOTE select click on the cat picture the first icon. See yellow arrow below. This will use up your github account.

You do not have to type in box your email.



The image shows a Red Hat login page. At the top is the Red Hat logo (a red hat icon) and the text "Red Hat". Below this is the heading "Log in to your Red Hat account" and the subtext "One account for all things Red Hat". There is a text input field labeled "Red Hat login or email". Below the input field is a red button with the text "NEXT". At the bottom, there is a link "Don't have an account? [Create one now.](#)". Below this is the text "Or sign in with" followed by a row of social media icons: GitHub, Eclipse, LinkedIn, Twitter, Facebook, Google, and Microsoft. A large yellow arrow points to the GitHub icon.

Setting up your cloud learning environment – Login using the Github you created



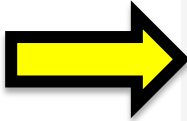
Sign in to GitHub
to continue to Red Hat SSO

Username or email address

Password [Forgot password?](#)

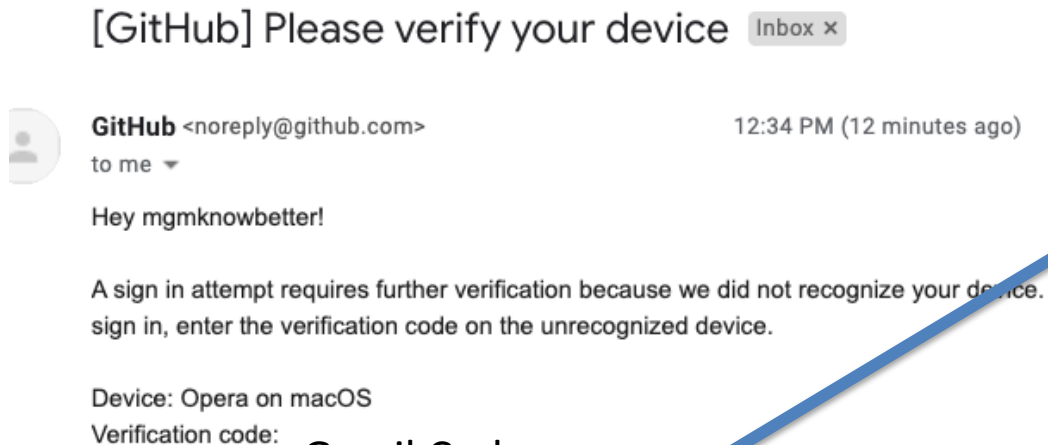
Sign in

New to GitHub? [Create an account.](#)




Setting up your cloud learning environment – Goto your Gmail Account and get the code.

Goto your Gmail Email and look for email with this subject and copy the verification code to use on verification form.



Gmail Code
Type in box on
from last step.



Device verification

Device verification code

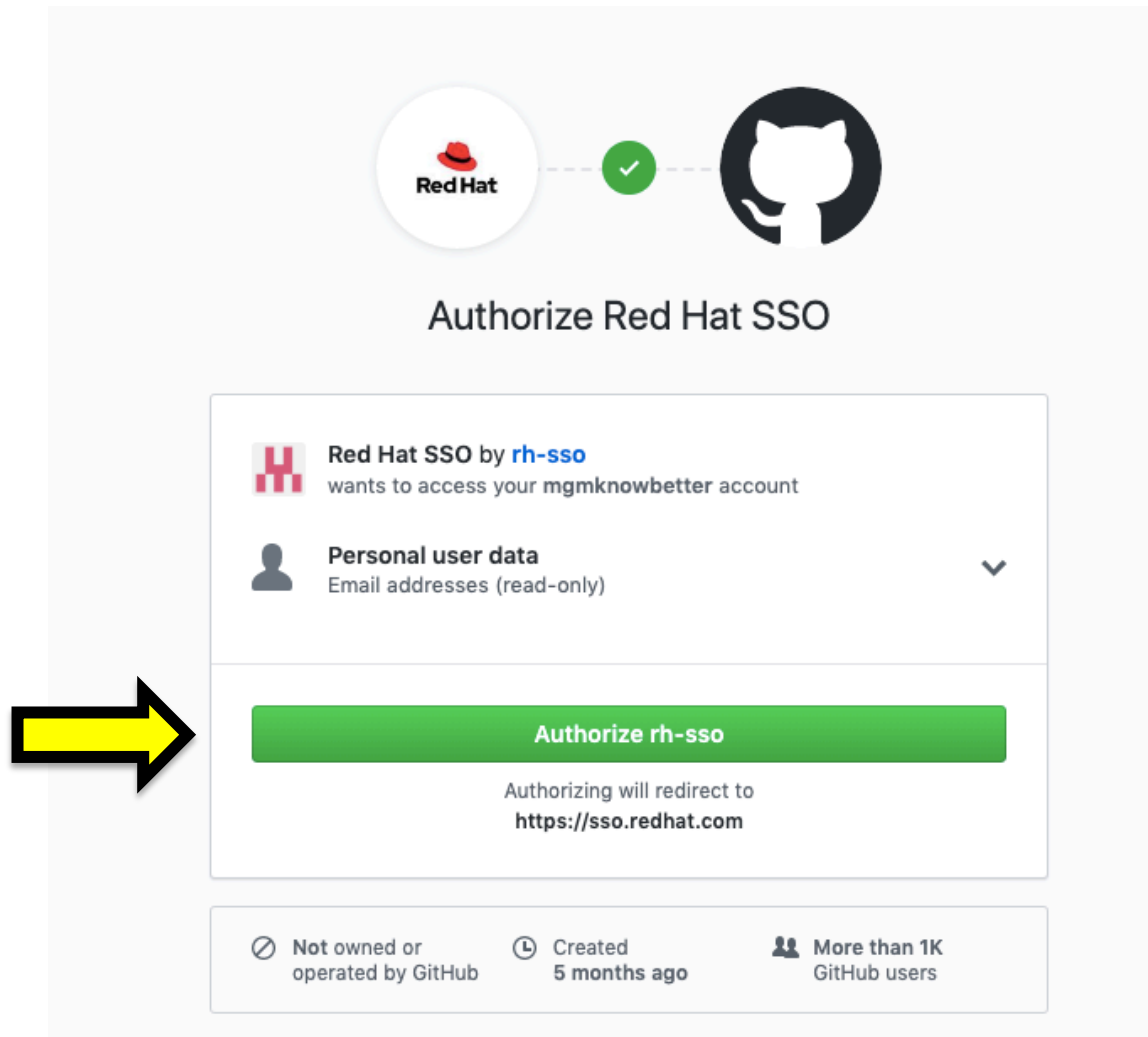
[Verify](#)

✉ We just sent your authentication code via email to m*****@gmail.com. The code will expire at 1:34PM EST.

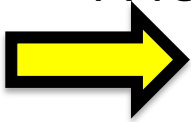
[Re-send the code.](#)

If you'd like to automatically verify devices in the future, consider enabling [two-factor authentication on your account](#).

Setting up your cloud learning environment – Login using the Github you created



Setting up your cloud learning environment – A few more authorization steps follow screens enter info.



your Red Hat account, please review and update your account information below. We retrieved the pre-filled information from your provider.

more know

Job role *

Senior Architect

Country *

United States


☒ I have read and agree to all the terms and conditions below (check all boxes).

- ☒ * I have read and agree to the [Enterprise Agreement](#).
- ☒ * I have read and agree to the [Red Hat OpenShift Online Services Agreement](#).
- ☒ * I have read and agree to the [Developer Program Terms & Conditions](#).

☒ I would like to receive the Red Hat Developer Program newsletter.

☒ I would like to receive the Red Hat OpenShift newsletter.

CREATE MY ACCOUNT

**Red Hat**

Account Information

* Required fields

Choose your username (Red Hat Login ID) *

You can use this username (also known as your Red Hat Login ID) to log in to other Red Hat sites. **It cannot be changed once created** and it must be at least five characters.

Red Hat

Eclipse Che

Eclipse Che powered by OpenShift.

We're glad you are here, mgmknowbetter.

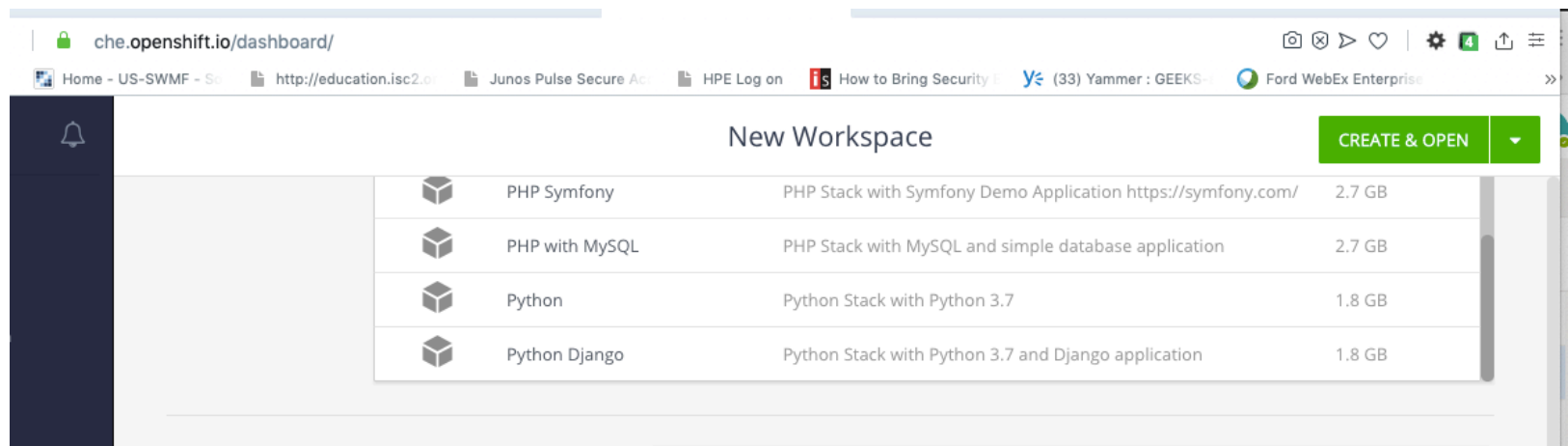
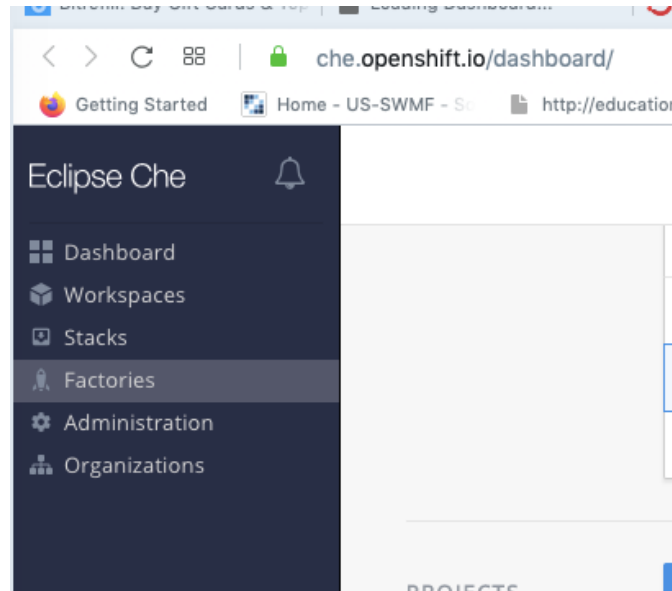
Ready to go ?

Please activate your account by clicking on the link below.
We'll confirm your account login again and grant you the resources to use Eclipse Che.

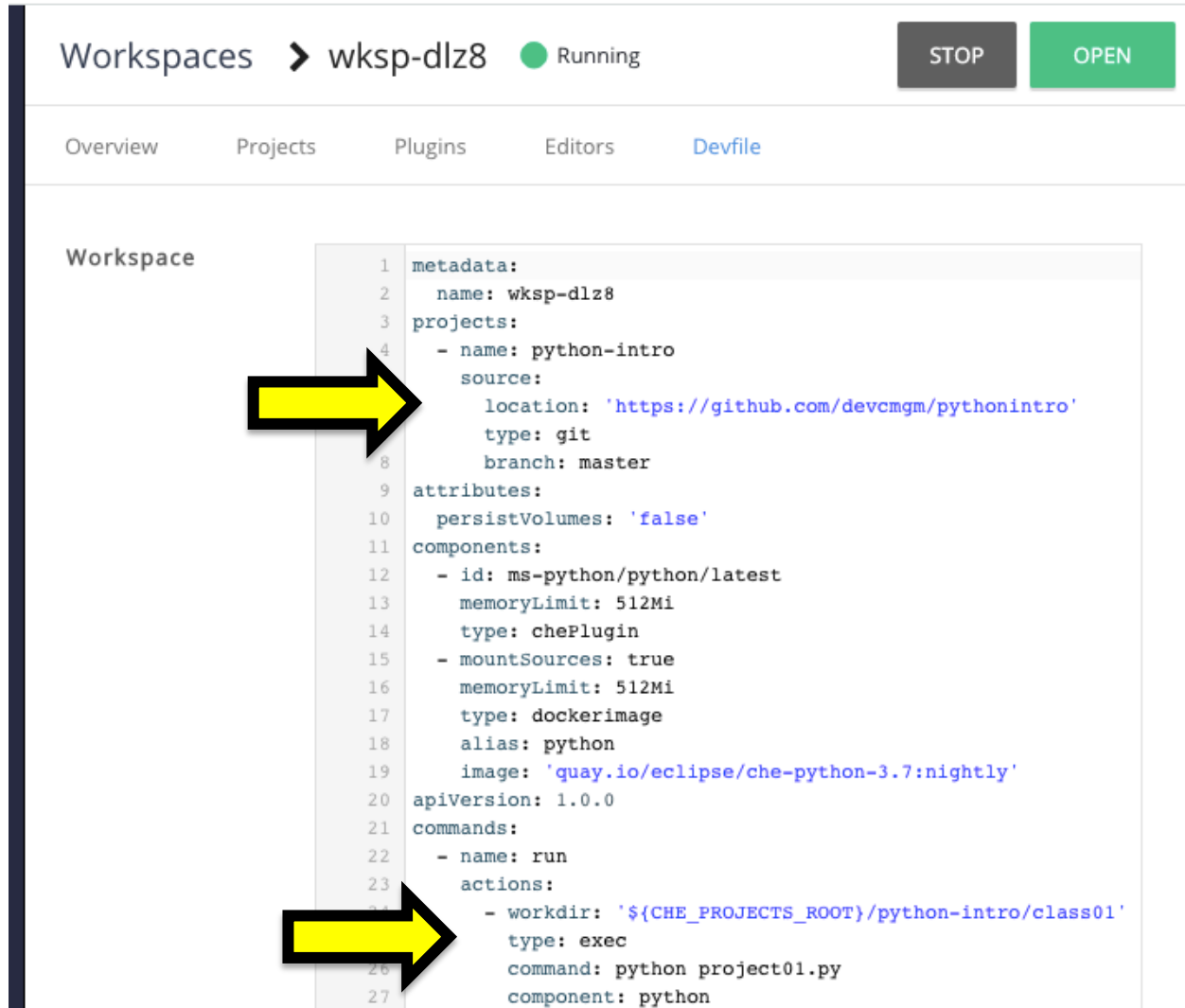
ACTIVATE ACCOUNT

[Use a different account](#)

Setting up your cloud learning environment – Final Step Create Python Workspace.



Setting up your cloud learning environment – Final Step Create Python Workspace.

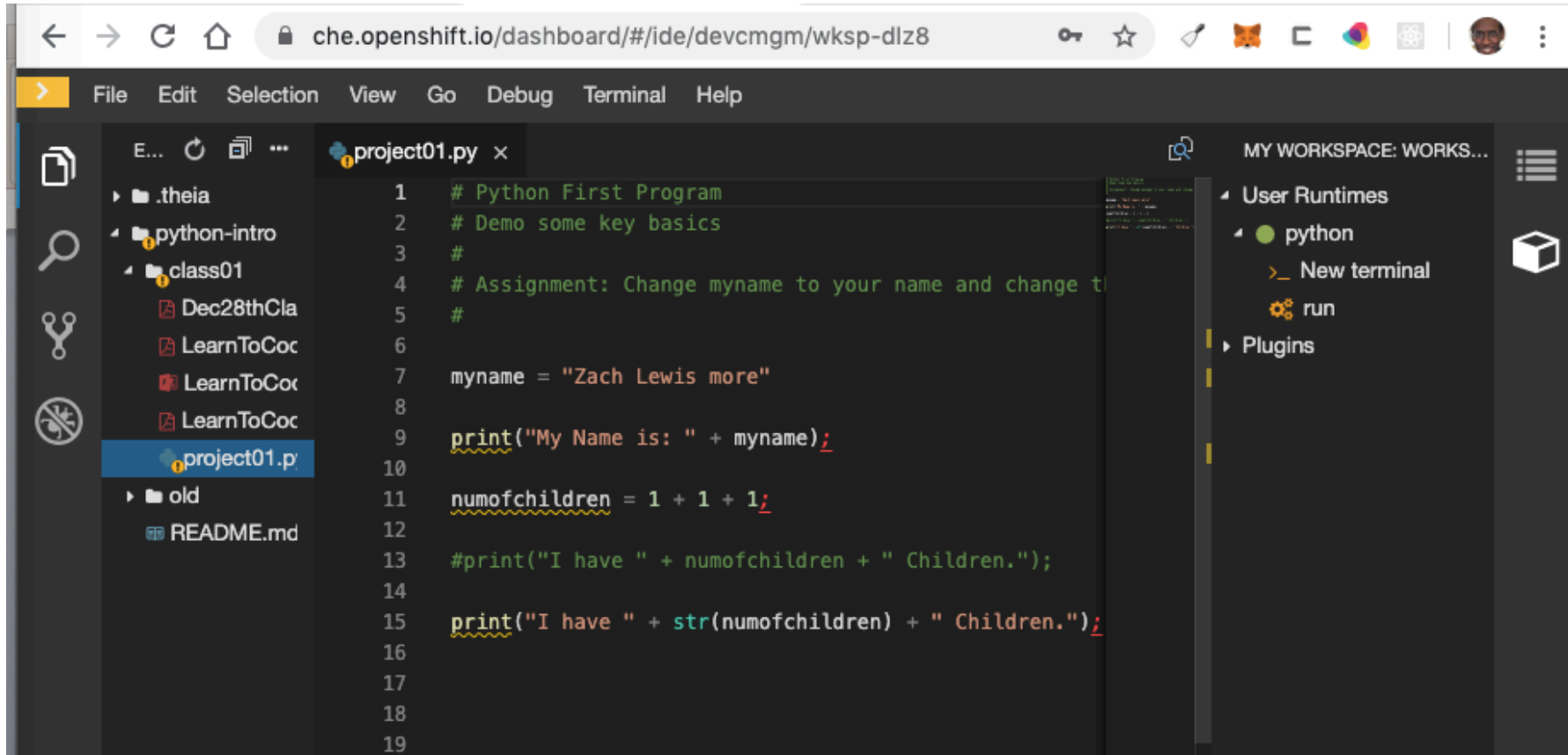


The screenshot displays the 'Workspaces' management interface. At the top, the workspace 'wksp-dlz8' is shown with a green 'Running' status and buttons for 'STOP' and 'OPEN'. Below this, a navigation bar includes 'Overview', 'Projects', 'Plugins', 'Editors', and 'Devfile'. The 'Workspace' tab is active, showing a configuration file with the following content:

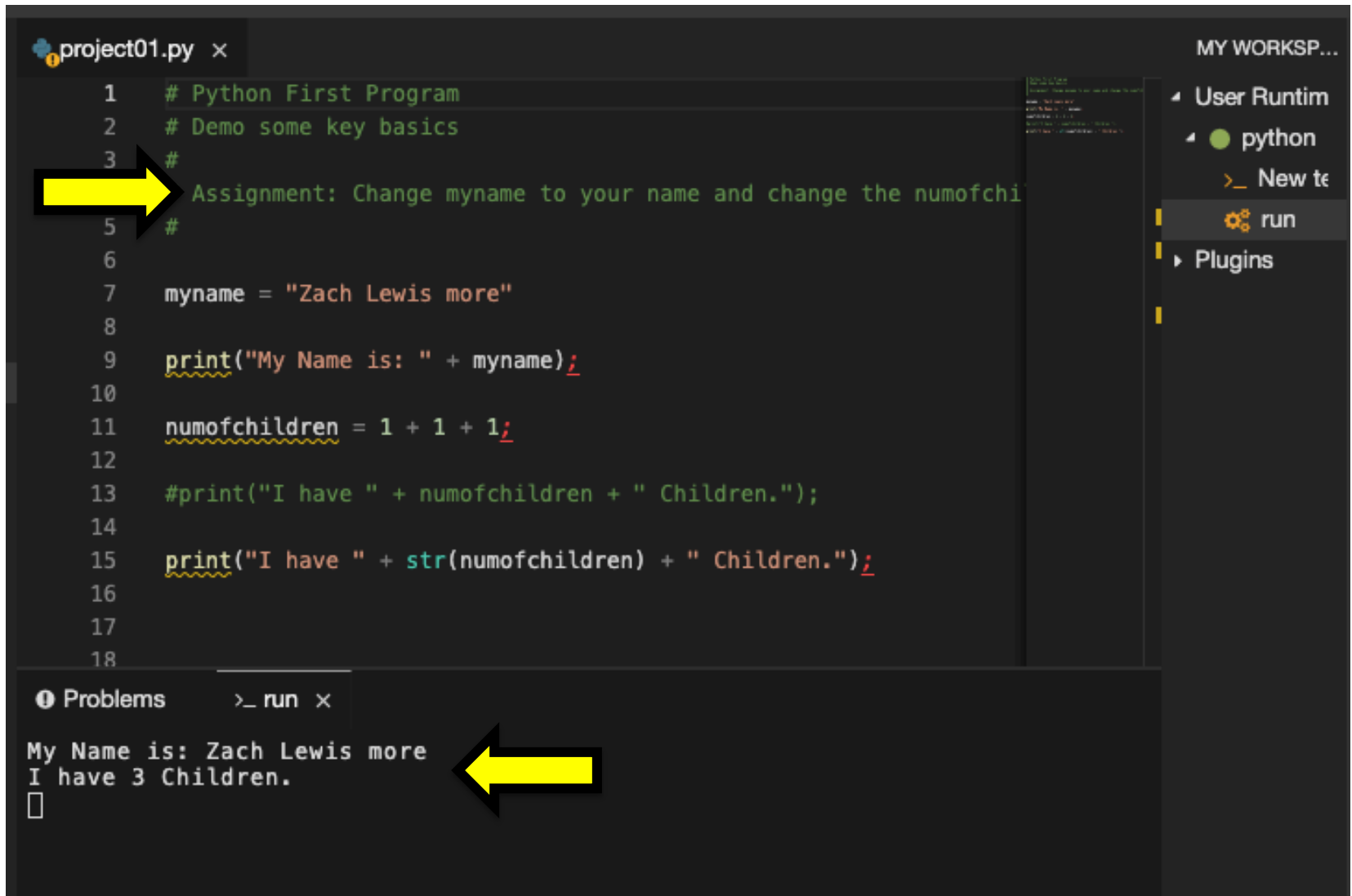
```
1 metadata:
2   name: wksp-dlz8
3 projects:
4   - name: python-intro
5     source:
6       location: 'https://github.com/devcmgm/pythonintro'
7       type: git
8       branch: master
9 attributes:
10   persistVolumes: 'false'
11 components:
12   - id: ms-python/python/latest
13     memoryLimit: 512Mi
14     type: chePlugin
15   - mountSources: true
16     memoryLimit: 512Mi
17     type: dockerimage
18     alias: python
19     image: 'quay.io/eclipse/che-python-3.7:nightly'
20 apiVersion: 1.0.0
21 commands:
22   - name: run
23     actions:
24       - workdir: '${CHE_PROJECTS_ROOT}/python-intro/class01'
25         type: exec
26         command: python project01.py
27         component: python
```

Two yellow arrows are overlaid on the image: one points to the 'source' field in the 'python-intro' project definition (lines 4-8), and the other points to the 'actions' field in the 'run' command definition (lines 23-27).

Setting up your cloud learning environment – Final Step Create Python Workspace.



Setting up your cloud learning environment – Final Step Create Python Workspace.



The screenshot displays a Python workspace environment. The main area is a code editor with a file named `project01.py`. The code is as follows:

```
1 # Python First Program
2 # Demo some key basics
3 #
4 # Assignment: Change myname to your name and change the numofchi
5 #
6
7 myname = "Zach Lewis more"
8
9 print("My Name is: " + myname);
10
11 numofchildren = 1 + 1 + 1;
12
13 #print("I have " + numofchildren + " Children.");
14
15 print("I have " + str(numofchildren) + " Children.");
16
17
18
```

A yellow arrow points to the comment on line 4: `# Assignment: Change myname to your name and change the numofchi`.

On the right side, there is a sidebar titled "MY WORKSP..." with the following options:

- User Runtime
 - python
 - New te
 - run
 - Plugins

At the bottom, there is a terminal window titled "Problems" and ">_ run x". It shows the output of the code:

```
My Name is: Zach Lewis more
I have 3 Children.
□
```

A yellow arrow points to the terminal output.

Next Week Seven Concepts

Next Week we will explain the seven key concepts of programming.

1. Data Storage Variables.
2. Control - Conditional statements (“if” statements) ...
3. Control - Looping and iteration. ...
4. Data Representation - Data types and data structures. ...
5. Control - Functions.
6. Statements
7. Expressions