

# Task 1:



Welcome to your beginners training in Python Programming!

Feel free to contact our entire team at [students@hyperiondev.com](mailto:students@hyperiondev.com) at any point in your learning experience.

Python is a powerful, widely used programming language. Unlike Java, Python is a more recent, efficient and arguably faster programming language. The syntax (way the code is written) is very similar to Java. We also offer training in HTML and Web Development. Please contact us to switch training paths.

The instructions for your first Python task are below aswell as additional information. Before you get started I strongly suggest you start using **Notepad++** to open all text files (.txt) and python files (.py). Do not use the normal Windows notepad or it will be much harder to read. Simply right click a file -> Edit with Notepad++ to be able to read it. If you cannot see 'Edit with Notepad++' then you do not have it installed.

## Instructions:

Read **example.py**. Open it using **Notepad++** (Right click the file and select 'Edit with Notepad++') If you do not have **Notepad++** installed please install it using the instructions located at [www.rmoola.com/pythonlessons.html](http://www.rmoola.com/pythonlessons.html).

- **Example.py** should help you understand some simple Python. Every task will have example code to help you get started. Make sure you read all of **example.py** and try your best to understand.
- You may run **example.py** to see the output. The instructions on how to do this are inside the file. Feel free to write and run your own example code before doing Task 1 to become more comfortable with Python.
- You are not required to read the entirety of **AdditionalReading.pdf**, it is purely for extra reference.

### Compulsory exercise to finish Task 1:

Now once you have read and completely understand **example.py**, try write a Python program that takes in a user input as a String. While the String is not "John", add every string entered to a list until "John" is entered. Then print out the list.

This program basically stores all incorrectly entered strings in a list where "John" is the only correct string. Save this program as **John.py** in this folder and a teacher will give you the next Task if **John.py** is correct.

Example program run (what should show up in the python console when you run it):

```
Enter your name : <user enters Tim>
Enter your name : <user enters Mark>
Enter your name: <user enters John>
Incorrect names: ['Tim', 'Mark']
```

### BONUS Optional Challenge:

Edit the above program to allow the user to enter an integer after they enter the name. This integer defines how many 'tries' the user will get to enter the right name. If the user exceeds the number of tries, the program must stop.

### Need some help?

Firstly, make sure that you have installed and setup all programs correctly. You have setup **Dropbox** correctly if you are reading this, but Python may not be installed correctly.

Visit [www.rmoola.com/pythonlessons.html](http://www.rmoola.com/pythonlessons.html) for a complete guide on how to setup the software.

Make sure you have **Python version 2.7** installed as per the instructions and not an older nor earlier version of Python.

Please refer to the pdf file **AdditionalReading.pdf** if you would like more examples of Python coding and explanations.

If you having problems understanding example.py or how to complete Task 1, please contact [students@hyperiondev.com](mailto:students@hyperiondev.com). One on one help sessions are available over the internet or in person in Westville, Durban or UKZN (Westville Campus) and these can be arranged by contacting us. **We employ paid teachers who are here to help you!**



# Getting help on Piazza

You will need internet access on any device (even a phone) to complete this step.

1. Visit the following web address: [www.tinyurl.com/hyperionpiazza](http://www.tinyurl.com/hyperionpiazza)

Welcome to Piazza!

Piazza is a free platform for instructors to efficiently manage class Q&A. Students can post questions and collaborate to edit responses to these questions. Instructors can also answer questions, endorse student answers, and edit or delete any posted content.

Piazza is designed to simulate real class discussion. It aims to get high quality answers to difficult questions, fast!

The name Piazza comes from the Italian word for plaza—a common city square where people can come together to share knowledge and ideas. We strive to recreate that communal atmosphere among students and instructors.

Hyperion Development  
(change school)

Are you a professor?  
Click here to create & join classes

Your Fall 2012 Classes:

Class 1: Hyperion Programming 1: Introduction to Programming  
(edit)  
Instructors: Riaz Moola, Tim Headley, Ebrahim Adam, Richard Morrow  
133 Enrolled  
Join as: ☒ Student ☐ TA ☐ Professor

Class Access Code:  
Hyperion

Class 2:  X

Class 3:  X

Class 4:  X

Class 5:  X

Add Another Class

Add Classes

2. The above should appear. Enter “**Hyperion**” in the “Class Access Code” field.

Hyperion Development  
(change school)

Your Fall 2012 Classes:

Class 1: Hyperion Programming 1: Introduction to Programming  
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Class Access Code:  
Hyperion

Class 2:  X

Class 3:  X

Class 4:  X

Class 5:  X

Add Another Class

Add Classes

3. Select “**Student**” by clicking the circle to its left. Then click “**Add Classes**”.

Hyperion Development  
(change school)

Your Classes:

1. Hyperion Programming 1: Introduction to Programming  
(go back & edit classes)  
Instructors: Riaz Moola, Tim Headley, Ebrahim Adam, Richard Morrow - 133 Enrolled  
Joining as Student

Please enter your school email address  
Please enter the hyperiondev.com email address to which you would like to add your classes.

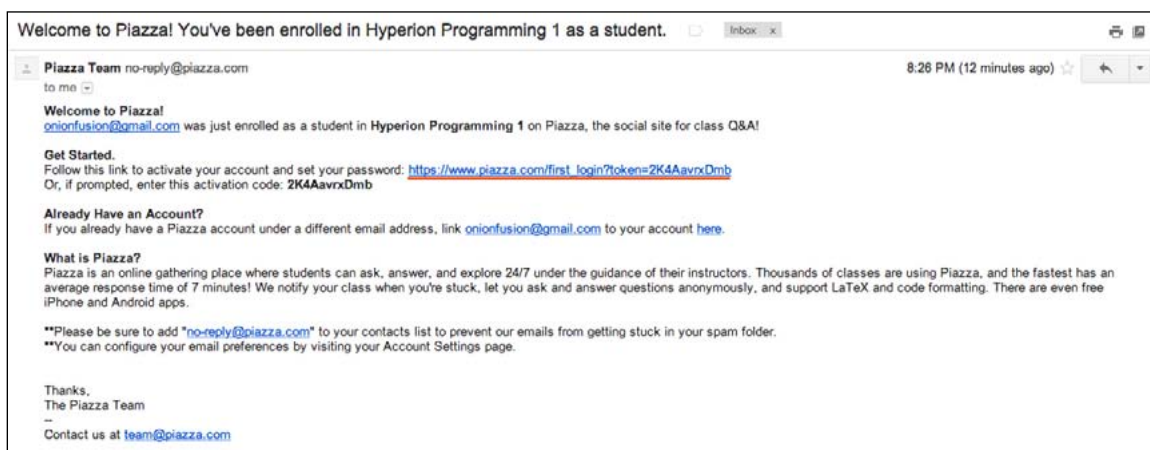
Email:

Confirm Email:

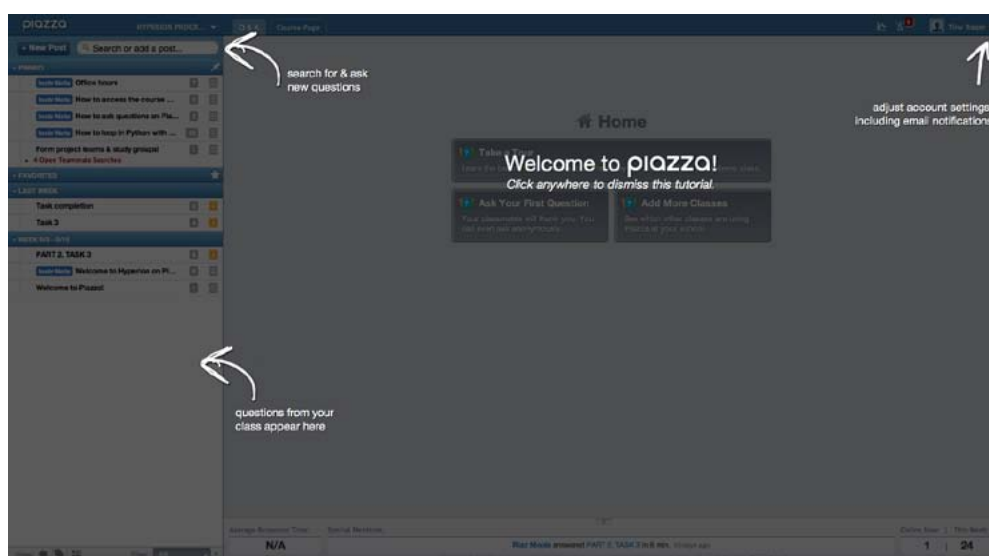
Submit Email

Unable to sign up? Email us at [team@piazza.com](mailto:team@piazza.com) or call us at 1-800-818-4124, and we'll help you get started!

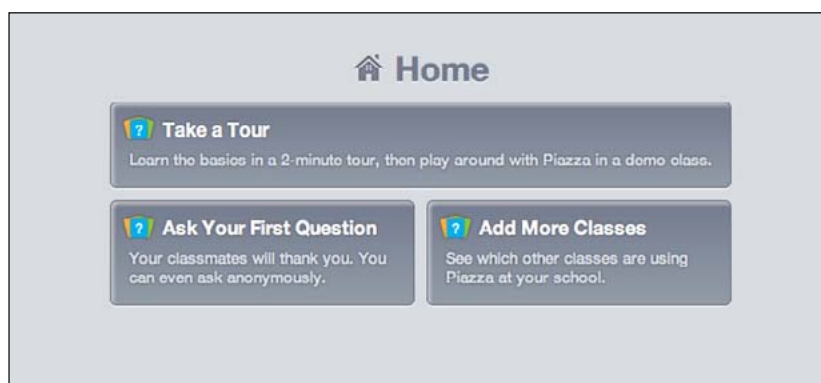
4. Proceed to enter your **email address** and confirm to enrol for our programming course.



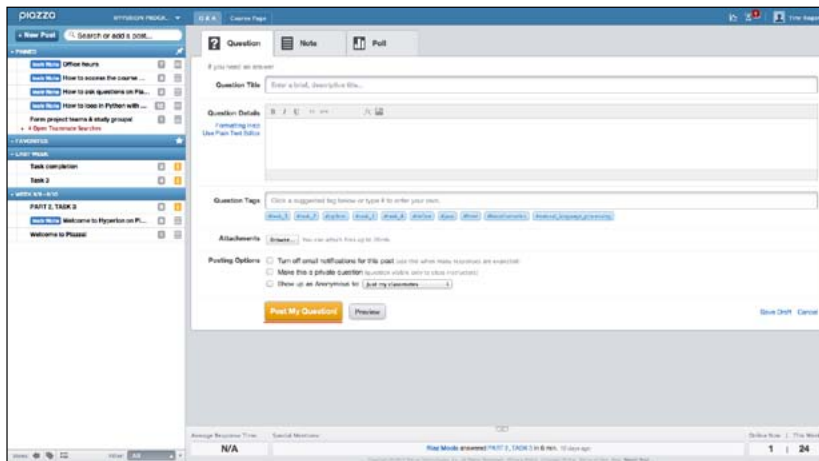
5. You should soon receive an email like above, guiding you on how to **confirm** and begin your learning with Hyperion.



6. Once you log in to your Piazza home page, **click anywhere to dismiss** the tutorial.

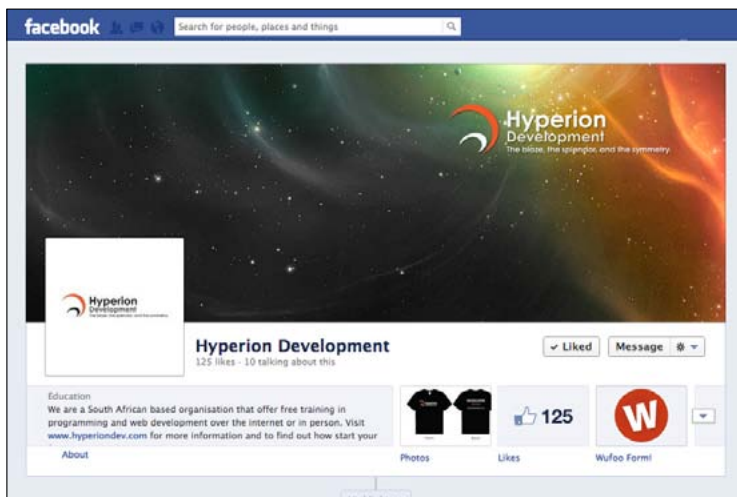


7. We recommend that you **"Take a Tour"** before continuing. Once you've completed the tour, click **"New Post"** top-left to post a question for our teachers to assist you with.



- Here you can choose a **Question Title**, type out your **Question Details**, add **Question Tags** that make your question easier to recognise and add **attachments**. Our teachers will be notified once you click “**Post My Question!**” and assist you.

## Getting help on Facebook



- Find us at [www.facebook.com/hyperiondev](http://www.facebook.com/hyperiondev), where you can “like” Hyperion Development and (only if you cannot get assistance through Piazza) post any questions or any requests for help on our wall.

**If there are any specific areas that are unclear or areas that require additional information:**

Please add to ‘What do you want to learn.txt’ and one of our teachers will assist you once they read your request.

### A peek ahead:

Task 2: Reading, writing and creating files with Python. Saving input on a hard drive. Defining functions/methods in Python.

