

What are GitHub classroom auto-grading test cases?

autograding

GitHub Classroom

communitycreator

As a computer science instructor, one needs to spend more time teaching and automate evaluation and grading processes whenever possible.

GitHub classroom helps instructors with this.

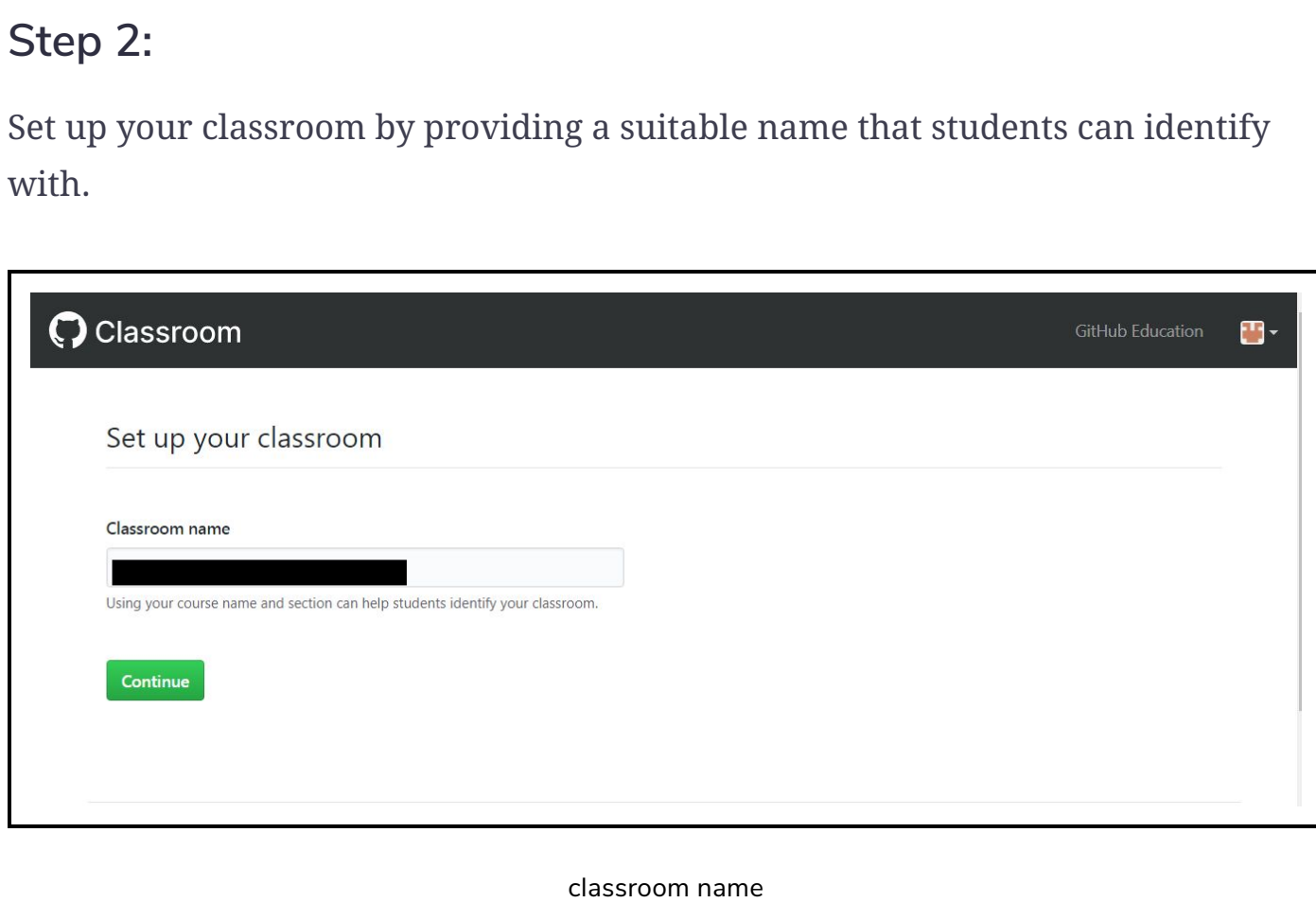
Step-by-step

The following steps help in preparing and understanding the workflow.

Step 1:

Login to [GitHub classroom](#) and select an organization to set up a new classroom. If you do not see your organization, click the **“grant us access”** link visible at the bottom of the web page.

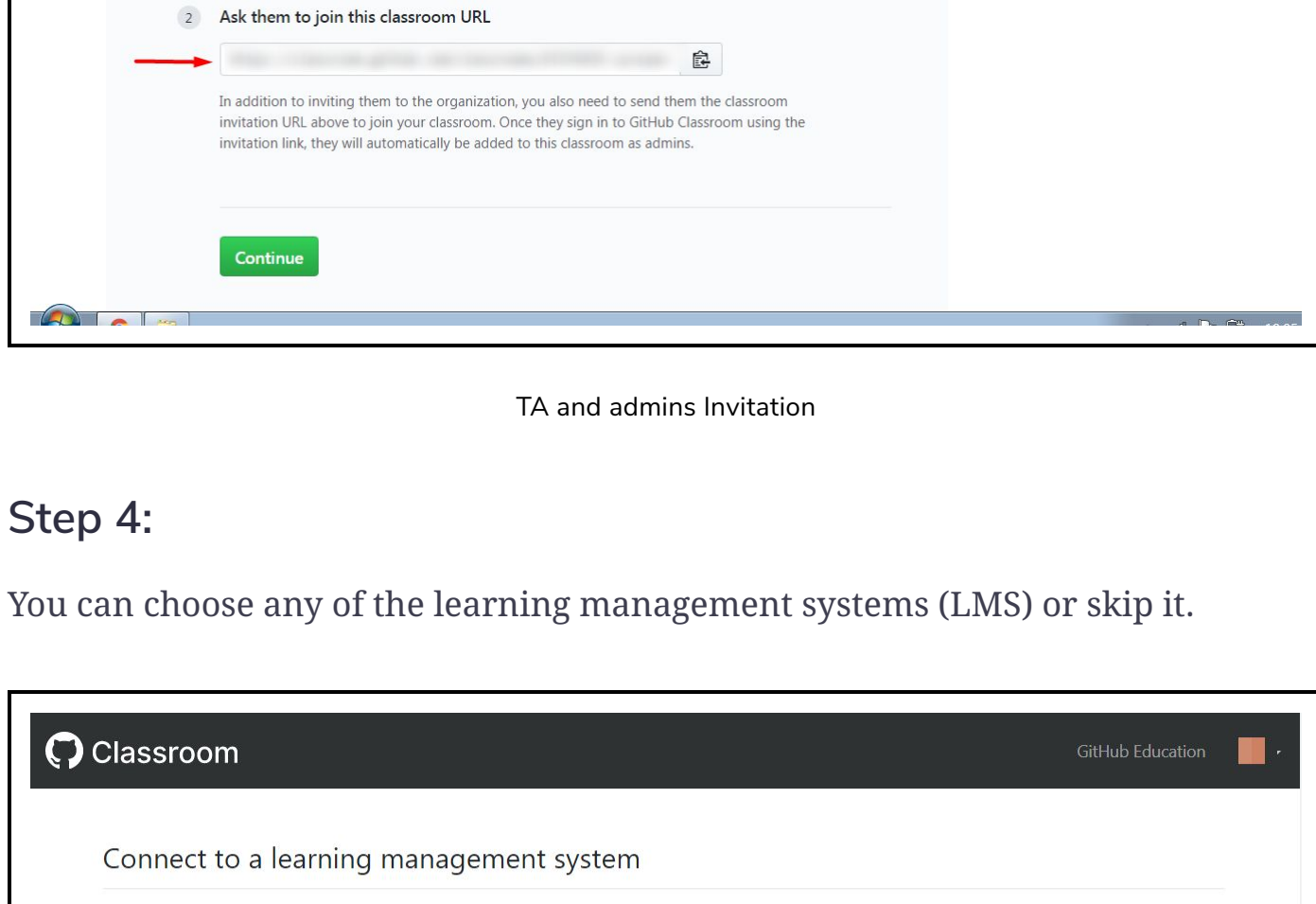
Create an [organization](#) if not created earlier.



Organization selection

Step 2:

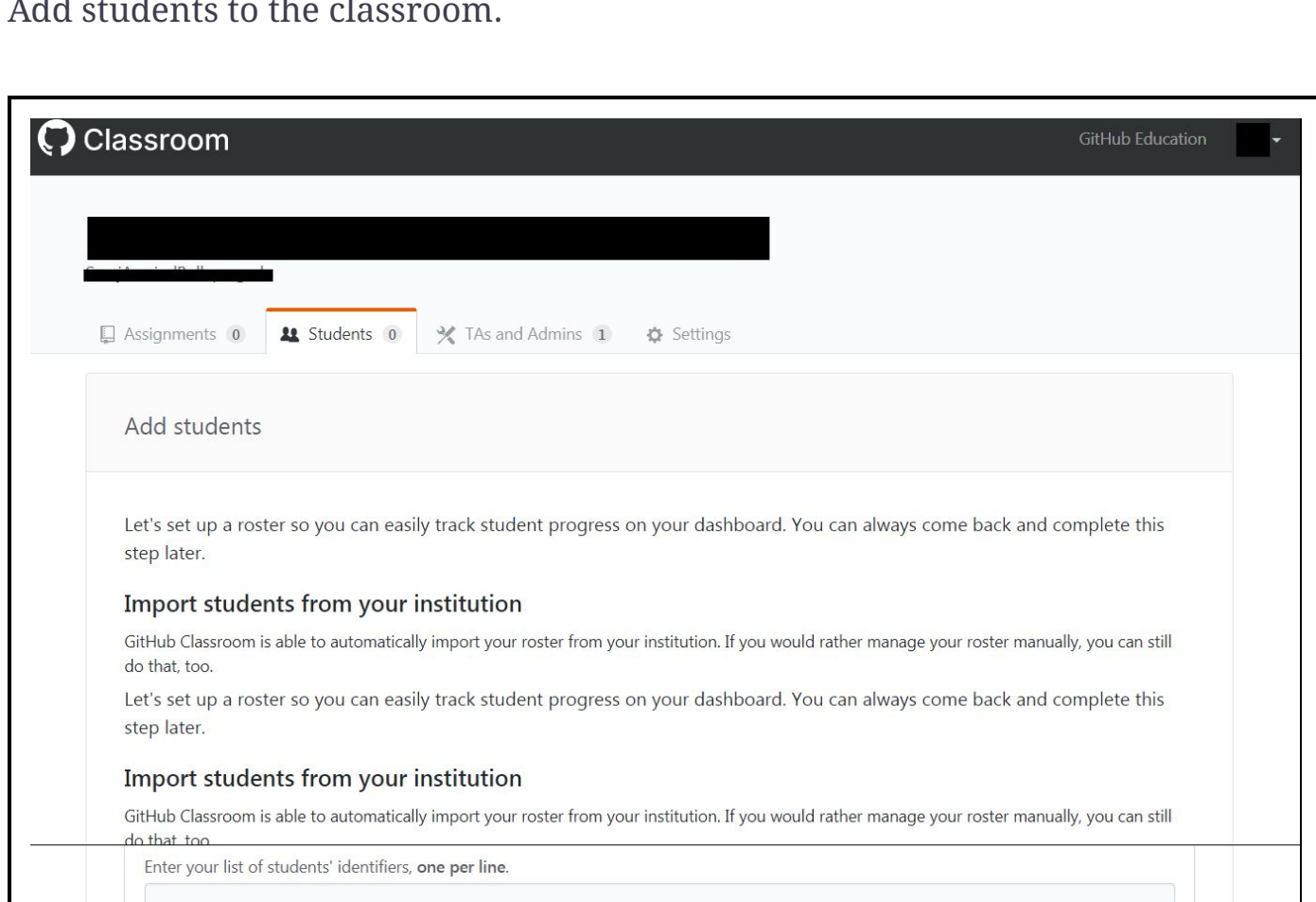
Set up your classroom by providing a suitable name that students can identify with.



classroom name

Step 3:

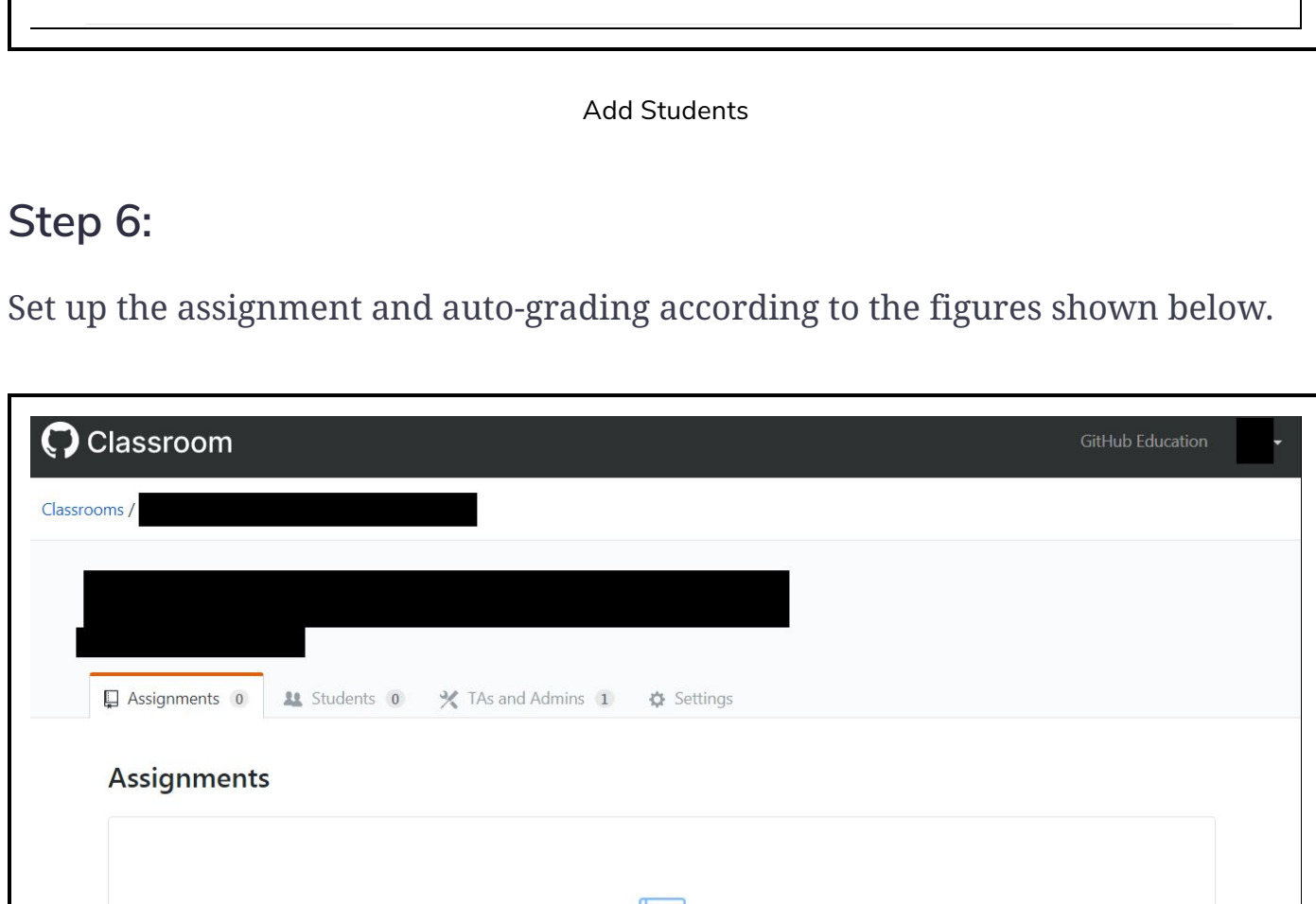
One can join teaching assistants (TAs) or other faculty to the classroom as admins. They can be given the classroom invitation URL.



TA and admins Invitation

Step 4:

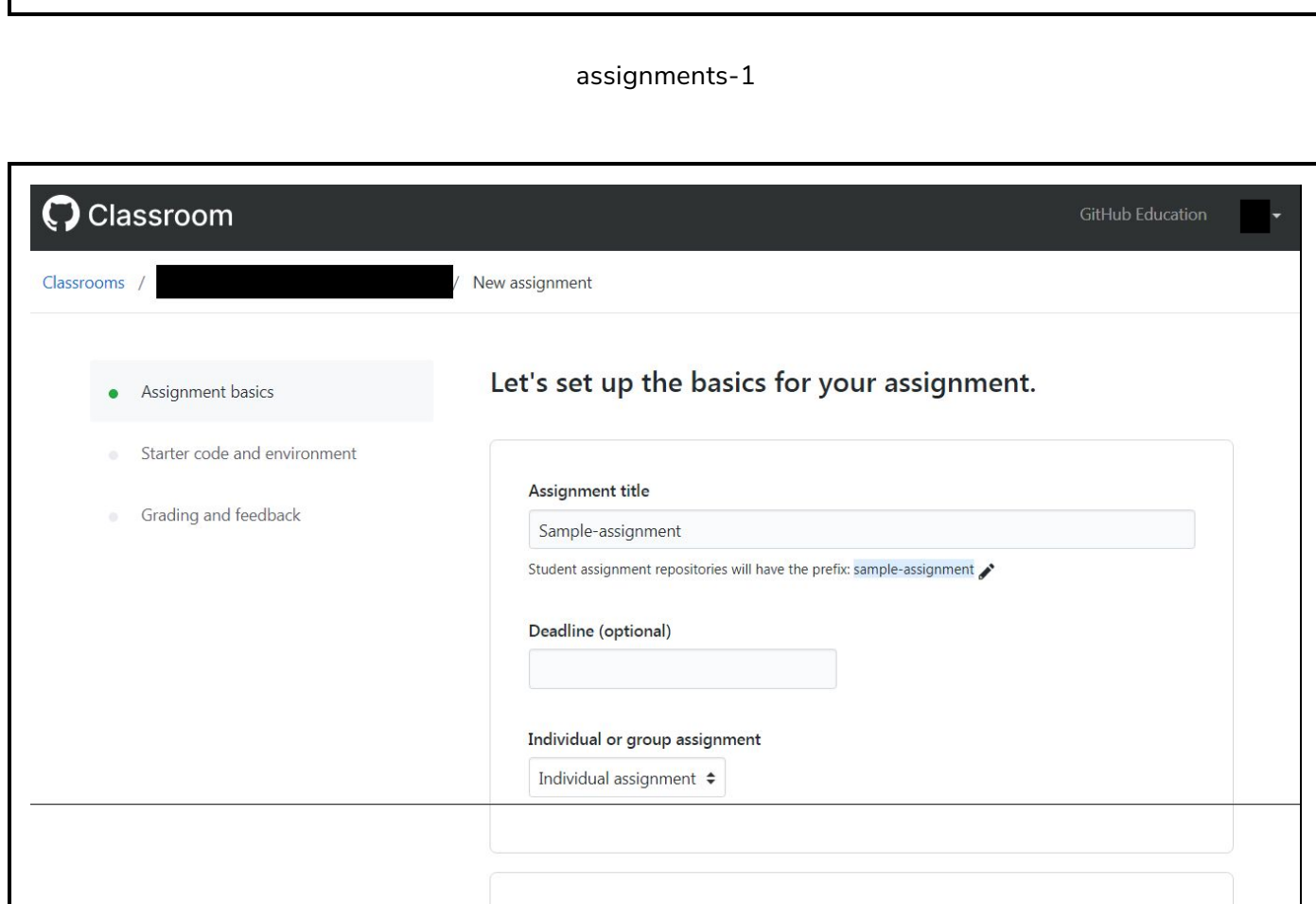
You can choose any of the learning management systems (LMS) or skip it.



LMS

Step 5:

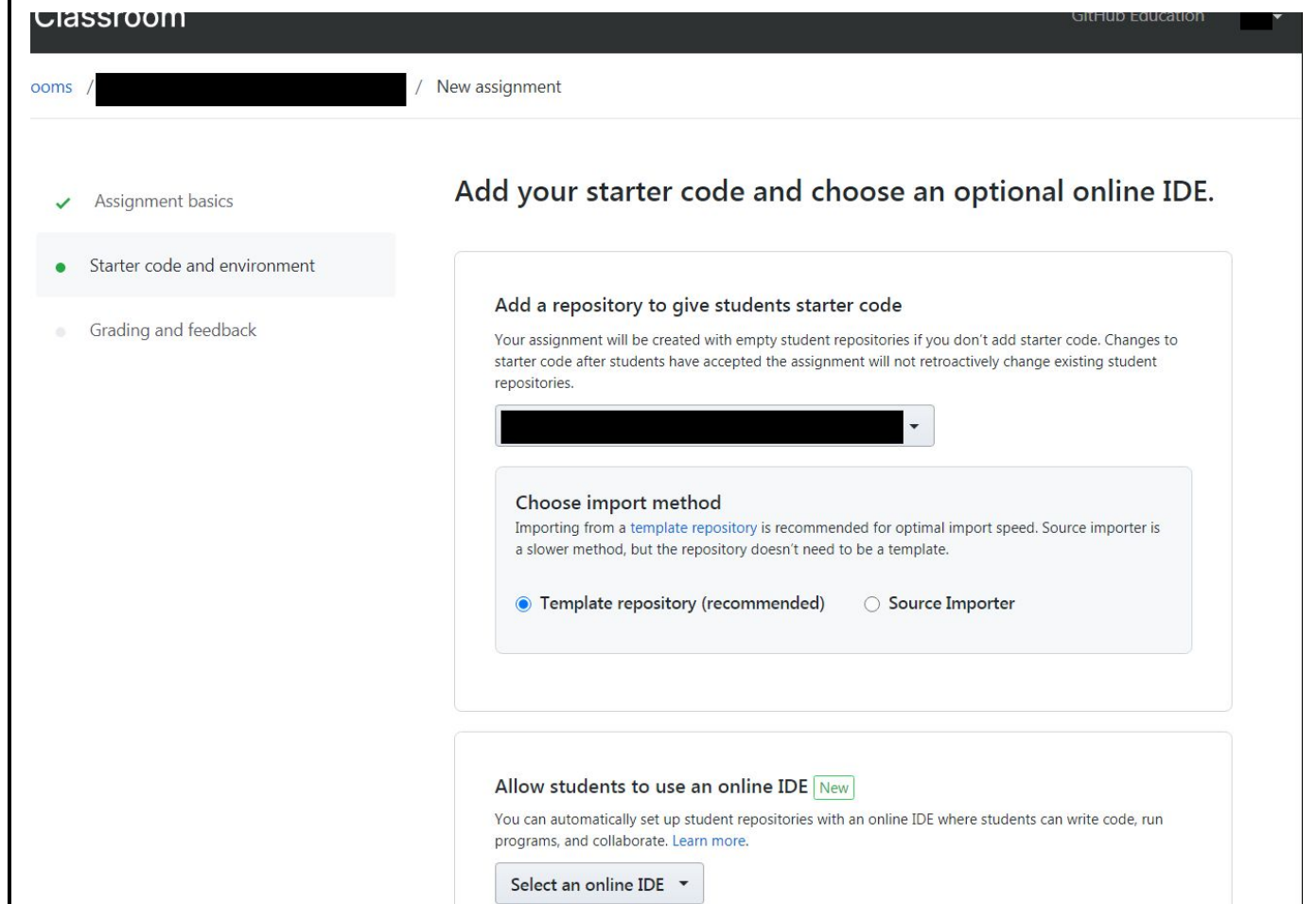
Add students to the classroom.



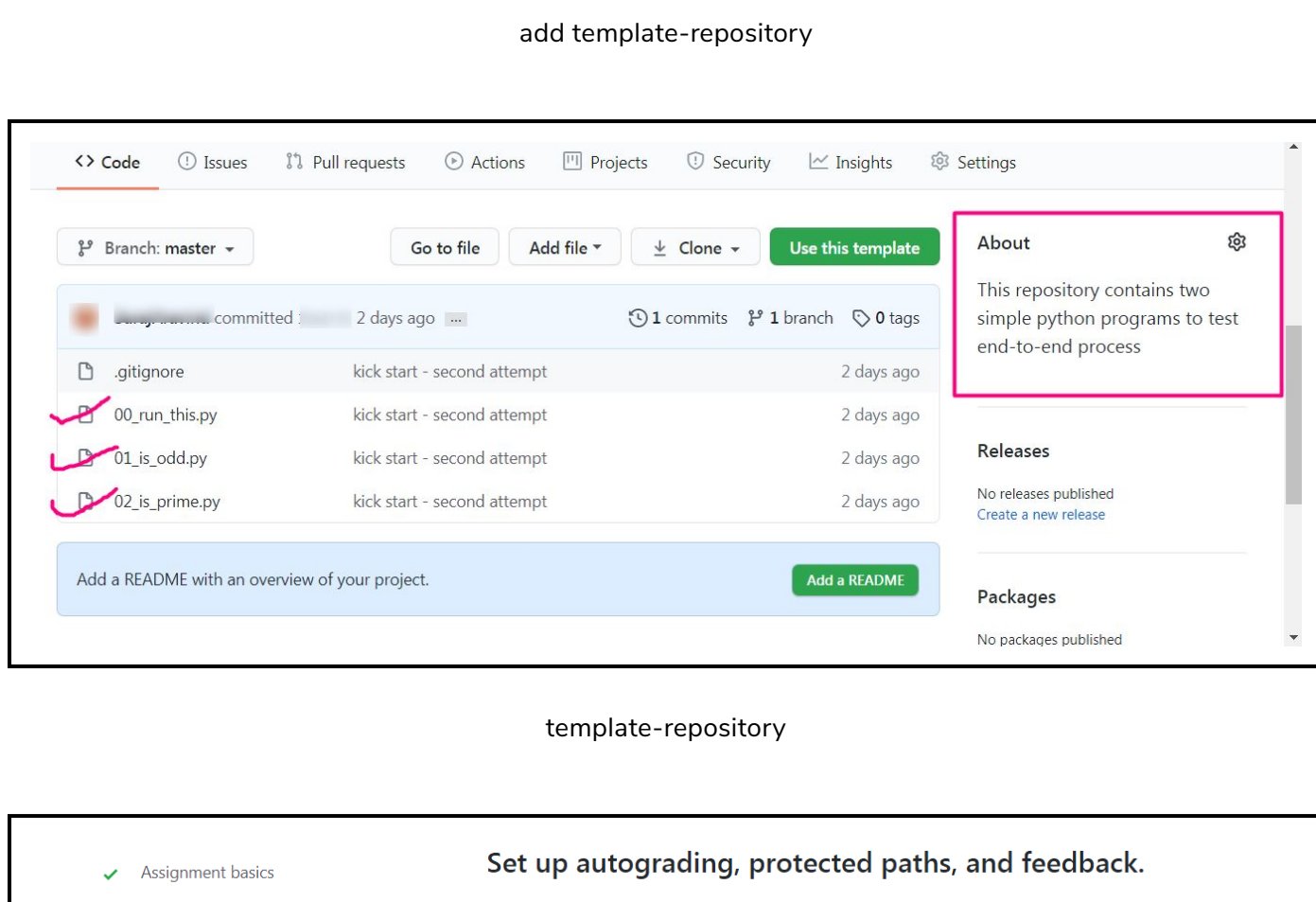
Add Students

Step 6:

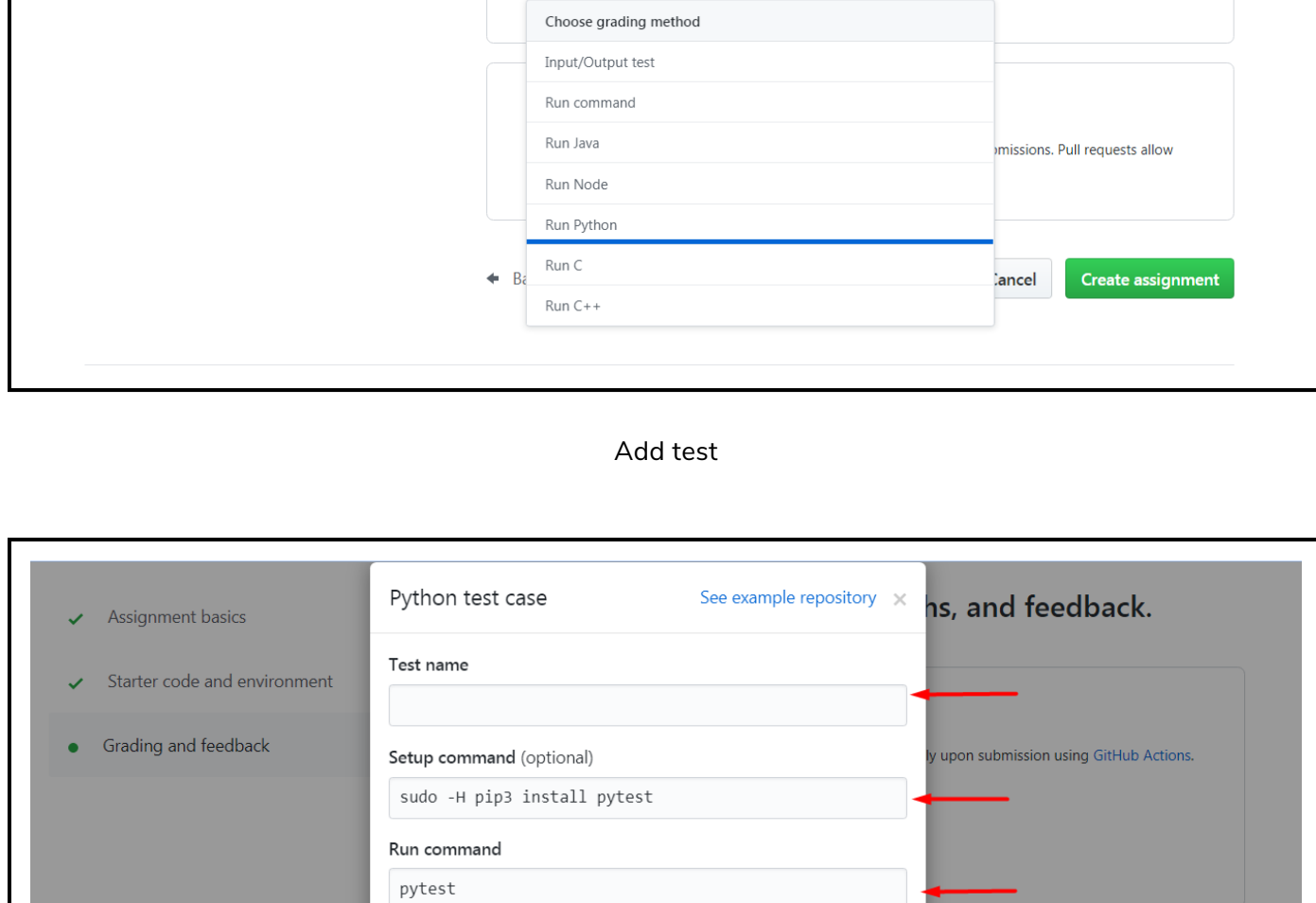
Set up the assignment and auto-grading according to the figures shown below.



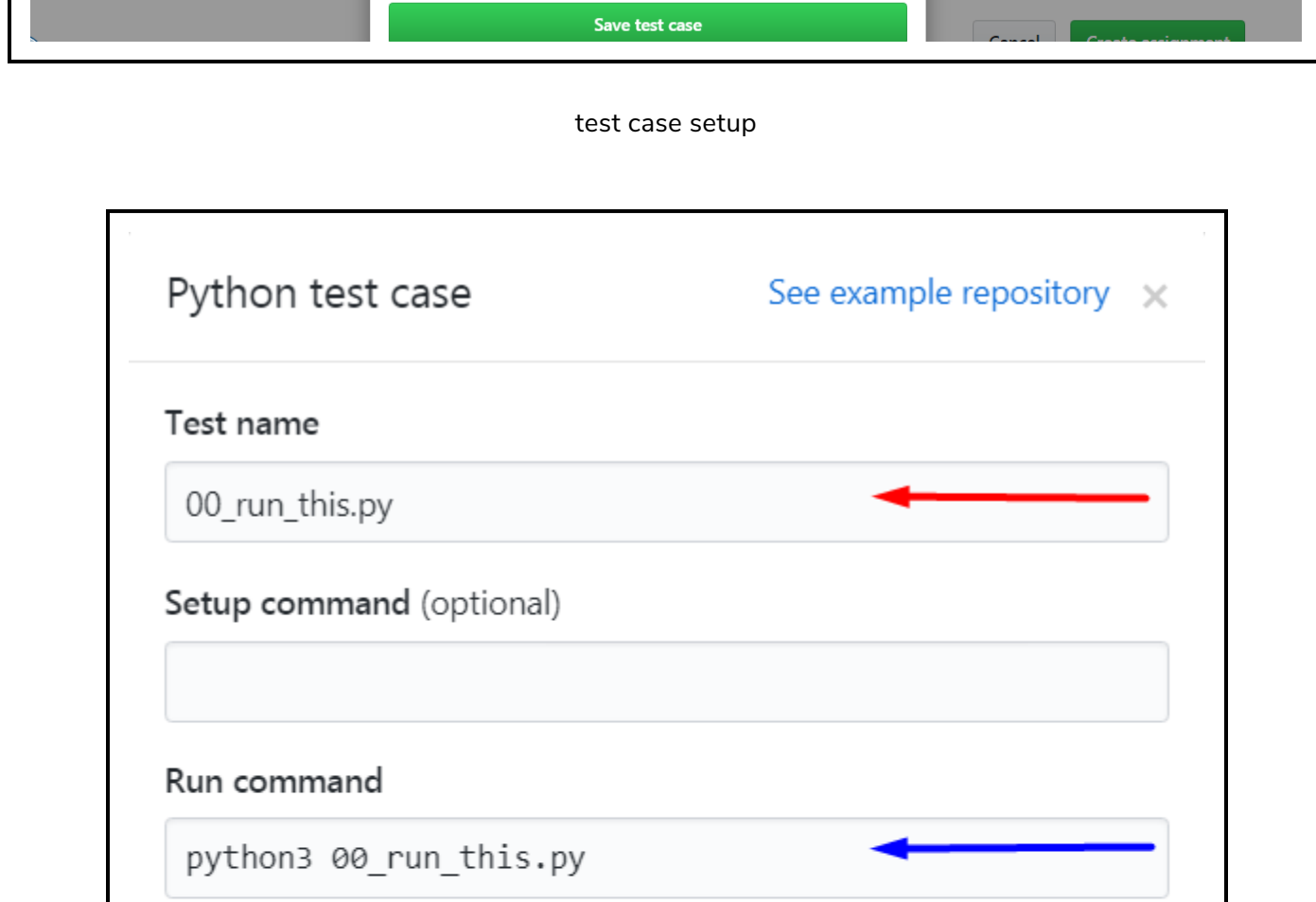
assignments-1



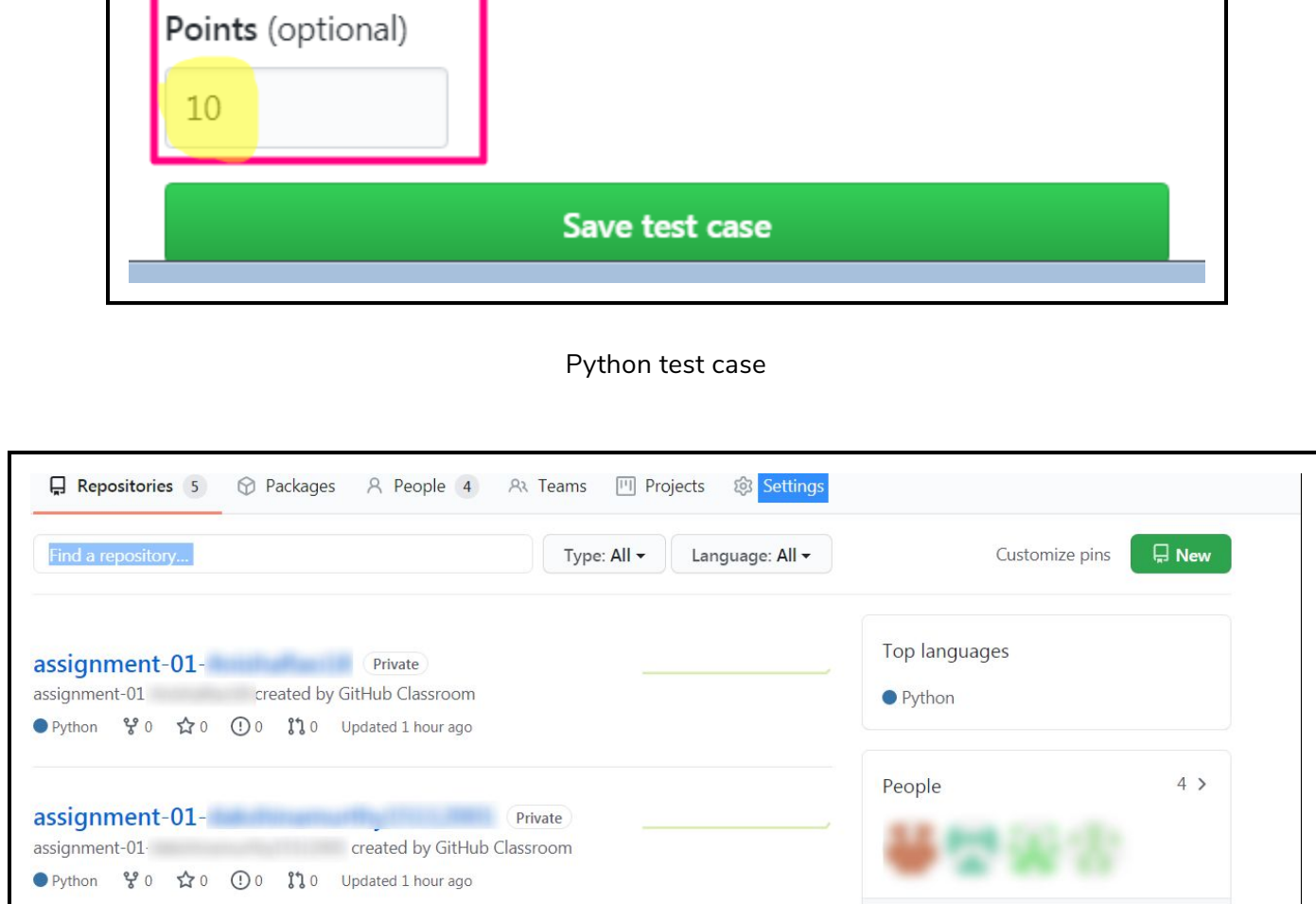
assignments-2



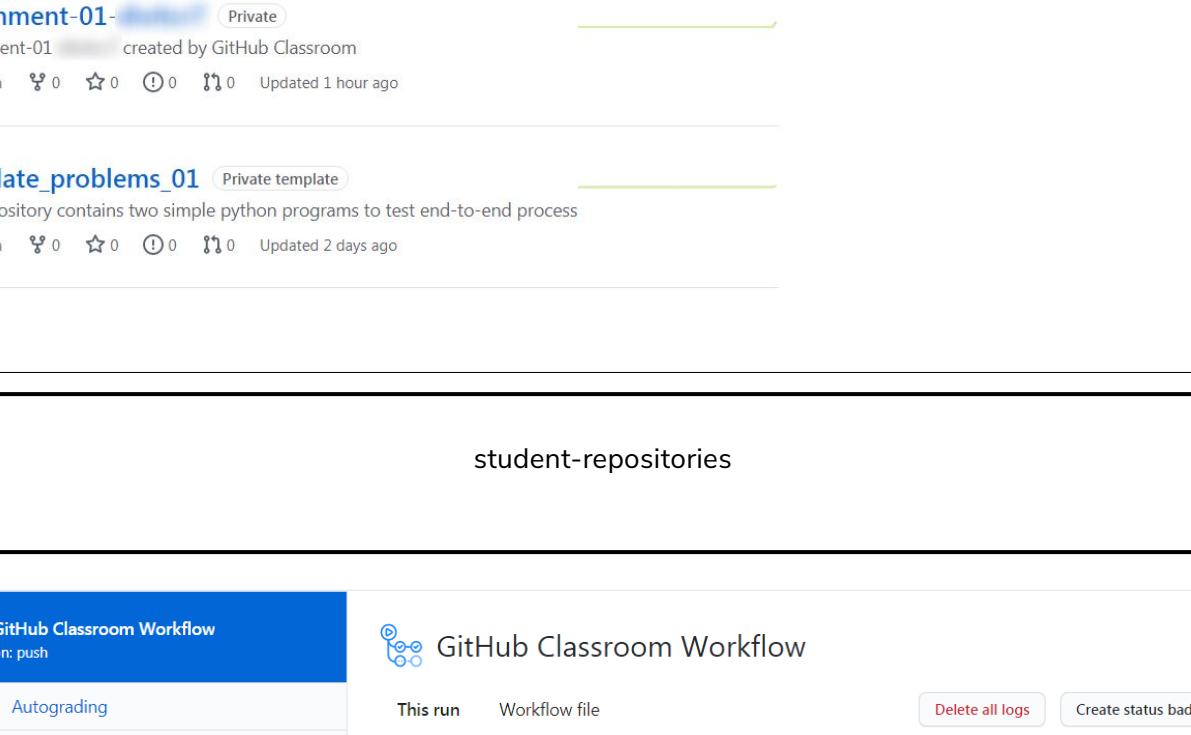
add template-repository



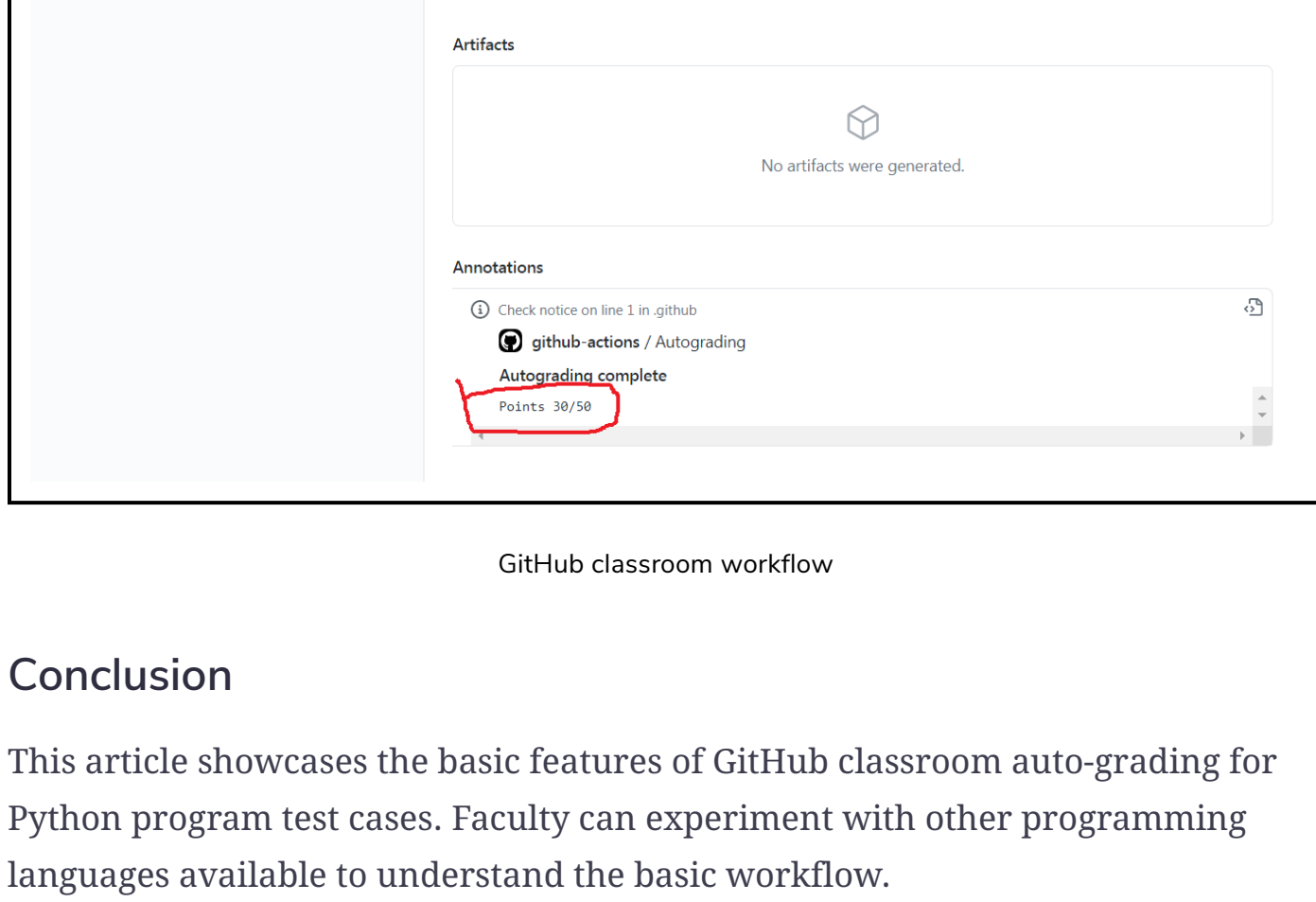
Add test



test case setup



Python test case



GitHub classroom workflow

Conclusion

This article showcases the basic features of GitHub classroom auto-grading for Python program test cases. Faculty can experiment with other programming languages available to understand the basic workflow.

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