Coding Solutions

Enrique Guzman
Program Coordinator at UC Santa Barbara

Some may think: The tech industry is desperately trying to hire computer programmers in California

The tech every industry is desperately trying to hire computer programmers in California everywhere

Some may think: Computer science is just about learning technology

Computer science is just about learning technology Computer science is about logic, problem solving, and creativity

Objective

Students will demonstrate their knowledge of introductory computer programming principles using Python 3

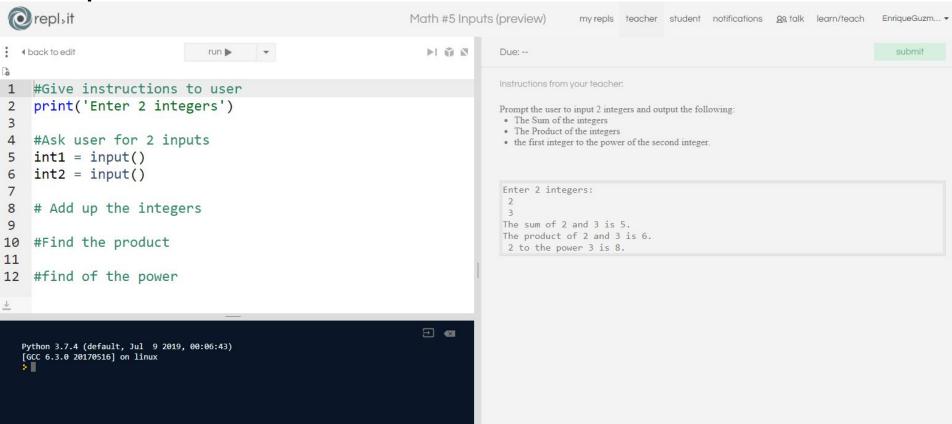
Why Python?

- Get started quicker
- Concepts over syntax
- One of the top 5 programming languages

Repl.it

- Online compiler
- Browser and internet access
- No additional software needed
- Python 3

Repl.it



Competition Overview

- Technical Challenges
 - o Debug
 - Coding
- Time limit: 60 Minutes
 - For entire challenge not each
- Pair Programming, no more, no less
- Points are earned for each final test passed
- Tiebreaker: Order of submission
- Preparing students for future opportunities

Competition Logistics

- Student accounts
- Both students must be present
- Pairs designate account for MESA Day
- At least one individual must have complete 75% of assignments
- Program testing is automated
 - Formatting will be important

Debug

- Teams are provided an incomplete program
- Fix the code as needed to the desire output
- Errors:
 - Syntax
 - Missing operators
 - Misspelling
 - Case sensitivity
 - o etc...

Technical Test

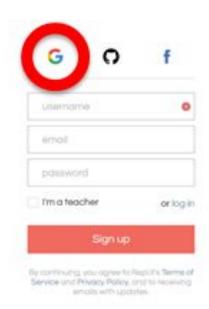
- Program a solution for the given prompt
- Follow the prompt closely
- Test cases and final testing differ
 - Test cases, students can test their code for given solutions
 - Final testing, their code is tested against a different set of inputs
- Code should be flexible
 - Hard coded solutions unlikely to pass tests run by the proctors

0

The UI

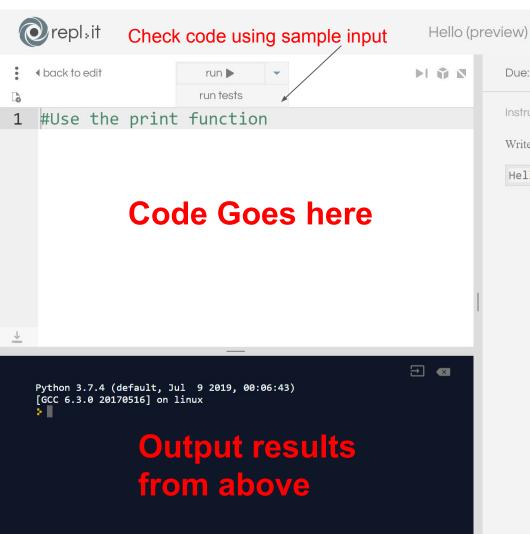
Create an account

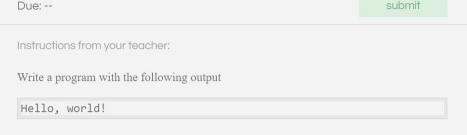
- 1. Sign up to relp.it https://repl.it/signup
 - a. A personal google account recommended to use as your login, click the G icon.



Classroom Link

http://tiny.cc/mesasmart19





student

notifications

EnriqueGuzm... ▼

teacher

Assignment/Coding Challenge

Sample Output



