Homework1

SDEV325

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05/17/2021

# C++

## Setup

1. After setting up my Cloud9 environment in AWS, I went ahead and located the guide for installing C++ in the environment. [Step 1: Install g++ and required dev packages](https://docs.aws.amazon.com/cloud9/latest/user-guide/sample-cplusplus.html#sample-cplusplus-install) included installing the packages for the required libraries using the system’s package manager.
2. Next - [Step 2: Install CMake](https://docs.aws.amazon.com/cloud9/latest/user-guide/sample-cplusplus.html#install-cmake). I confirmed the CMake version and I was ready to go!
3. I was able to run **main.cpp** by right-clicking the file and selecting run with -- C++

## Guide

1. The user is prompted for two double values, a base and exponent, which the result is then squared.
2. For example, if the base is 2 and the exponent is 2, then the result is 16 i.e (22)2

## Tests

|  |  |
| --- | --- |
| **Input** | **Img Result** |
| base=2  exp=2 |  |
| base=4  exponent=3 | 43 = 64 |

### Input Validation

|  |  |
| --- | --- |
| **Input** | **Img Result** |
| base=two  base=2.5  exp=$two  exp=5.4 | 2.55.4 = 140.889 |

# Java

## Guide

* We are able to run java files by right-click the file and clicking run with - java or with the CLI.



* Right-Click Option



* CLI Option

# Python

## Setup

1. Luckily, there was no setup required to use Python3 in the environment as Python was already installed.

Guide

1. The user is prompted for a height and width which results in a rectangle drawn and the Area displayed.
2. The user can right-click the main.py file and run with - Python3 or use the CLI.

## Tests

|  |  |
| --- | --- |
| **Input** | **Img Result** |
| height=5  width=5 |  |
| height=6  width=3 |  |
| Using the CLI, create a new terminal  Enter:   1. cd Homework1/python 2. python3 main.py   height: 7  width: 5 |  |

## Input Validation

* Only int values are accepted.

