# EXERCISE 1.1: GETTING STARTED WITH PYTHON

## REFLECTION QUESTIONS

1. *IN YOUR OWN WORDS, WHAT IS THE DIFFERENCE BETWEEN FRONTEND AND BACKEND WEB DEVELOPMENT? IF YOU WERE HIRED TO WORK ON BACKEND PROGRAMMING FOR A WEB APPLICATION, WHAT KINDS OF OPERATIONS WOULD YOU BE WORKING ON?*
   - *FRONT END TYPICALLY REFERS TO WHAT THE CLIENT AND CUSTOMER SEE ON A WEB PAGE, OR APP. IT PULLS THE INFORMATION FROM THE BACKEND, WHICH WOULD BE DATABASES SUCH AS API'S ON THE SERVER SIDE, AND PRESENTS IT FOR UX AND UI.*

2. *IMAGINE YOU'RE WORKING AS A FULL-STACK DEVELOPER IN THE NEAR FUTURE. YOUR TEAM IS ASKING FOR YOUR ADVICE ON WHETHER TO USE JAVASCRIPT OR PYTHON FOR A PROJECT, AND YOU THINK PYTHON WOULD BE THE BETTER CHOICE. HOW WOULD YOU EXPLAIN THE SIMILARITIES AND DIFFERENCES BETWEEN THE TWO LANGUAGES TO YOUR TEAM? DRAWING FROM WHAT YOU LEARNED IN THIS EXERCISE, WHAT REASONS WOULD YOU GIVE TO CONVINCE YOUR TEAM THAT PYTHON IS THE BETTER OPTION?  (HINT: REFER TO THE EXERCISE SECTION "THE BENEFITS OF DEVELOPING WITH PYTHON")*
   - *READABILITY WITH INDENTATIONS AND EASE FOR ANYONE TO READ WITH EVEN JUST THE BASICS OF CODING KNOWLEDGE, VERSATILITY WITH TONS OF OPEN-SOURCE PACKAGES/LIBRARIES TO ALLOW AUTOMATED FUNCTIONS, FRAMEWORKS COME WITH PRE-INSTALLED COMMON WEB OPERATIONS*

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## *REFLECTION QUESTIONS*

*3. NOW THAT YOU'VE HAD AN INTRODUCTION TO PYTHON, WRITE DOWN 3 GOALS YOU HAVE FOR YOURSELF AND YOUR LEARNING DURING THIS ACHIEVEMENT. YOU CAN REFLECT ON THE FOLLOWING QUESTIONS IF IT HELPS YOU. WHAT DO YOU WANT TO LEARN ABOUT PYTHON? WHAT DO YOU WANT TO GET OUT OF THIS ACHIEVEMENT? WHERE OR WHAT DO YOU SEE YOURSELF WORKING ON AFTER YOU COMPLETE THIS ACHIEVEMENT?*

- I WOULD LIKE TO LEARN MORE ABOUT FRAMEWORKS AND LIBRARIES THAT WORK WITH PYTHON FOR EASE OF USE AND EXPEDITED CODING FLOW
- I WOULD LIKE TO LEARN A LOT OF THE BUILT-IN FUNCTIONS OF PYTHON AND USE THEM EFFECTIVELY