

WHY LEARN TO CODE

- Solve a problem once and then automate it
- Reduce repetitive work
- **Understand if the code provided by AI is correct**
- Connect with Cloud infrastructure like AWS / GCP and automate code execution
- Connect with many services like Gmail, Slack, Youtube and automate the data manipulation using their API

BigCode - Editor



BigCode - Editor - a Hugging Face Space by bigcode

Discover amazing ML apps made by the community

 huggingface

HOW TO LEARN

- Master Syntax by typing and executing code program
- Master problem solving with code
- Learn to test your code automatically
- Start solving real world problem

YOUR CHALLENGES

Learning to Program

Basics

Intermediate

Advanced

Integration

GIT

Syntax

Libraries

Data
Structure

TDD

Modular

DWH

Cloud

Debug

Control
Flow

Integration

APIs

OOPS

Design

AI/ML

ETL

Eights of Python

PYTHON : A DATE

1. Python on Win n Lin
2. Setting up Git
3. First Program
4. Control Freak
5. Loopy Python
6. Functions + Objects
7. Files I/O
8. Test Driven Development

SQL & PYTHON

1. SQL with DBeaver
2. Data Modeling Tables
3. SparkSQL and PGSQL
4. SQL Data Analysis
5. CTEs Vs Subquery Vs CTAS
6. Modeling Unknowns
7. SQL Window Functions
8. Data marts Hands on

LIBRARIES

1. Pandas Dataframes
2. Psycpg2 Database
3. SQLAlchemy ORM
4. DBT for Schema Validation
5. FastAPI
6. Streamlit
7. AWS Wrangler
8. PySpark

LINUX :

1. SSH into a Linux Machine
2. Using AWK / Cut
3. Using SED
4. Using Grep
5. Configuring SpaceVim
6. Using Vim
7. Using Tmux
8. Shell Scripting - A primer

**Python is
actively
supported by
many
developers from
different
domains**

LETS PRACTICE

THANKS FOR WATCHING

prgm1.py

```
print("Hello World!")  
print("Hello Again")  
print("I like typing this.")  
print("This is fun.")  
print('Yay! Printing.')  
print("I'd much rather you 'not'.")  
print('I "said" do not touch this.')
```

prgm2.py

```
# A comment, this is so you can read your program later.  
  
# Anything after the # is ignored by python.  
  
print("I could have code like this.") # and the comment after is  
ignored  
  
# You can also use a comment to "disable" or comment out code:  
  
# print("This won't run.")
```

prgm3.py

```
print("I will now count my chickens:")  
  
print("Hens", 25 + 30 / 6)  
  
print("Roosters", 100 - 25 * 3 % 4)  
  
print("Now I will count the eggs:")  
  
print(3 + 2 + 1 - 5 + 4 % 2 - 1 / 4 + 6)  
  
print("Is it true that 3 + 2 < 5 - 7?")  
  
print(3 + 2 < 5 - 7)  
  
print("What is 3 + 2?", 3 + 2)  
  
print("What is 5 - 7?", 5 - 7)  
  
print("Oh, that's why it's False.")  
  
print("How about some more.")  
  
print("Is it greater?", 5 > -2)  
  
print("Is it greater or equal?", 5 >= -2)  
  
print("Is it less or equal?", 5 <= -2)
```