Expanded Week 1 Schedule with Extra Tasks & Homework

This document provides a detailed daily schedule for Week 1 of the 6-Month IT Roadmap. Each day includes core study tasks (Python + Labs) and extra homework for reinforcement.

# Day 1 (Monday)

## Core Tasks

* Python: Install Python 3, run print('Hello, World!'), learn variables, simple math operations.
* Labs: Install VirtualBox/VMware, set up Linux & Windows VMs, snapshot for resets.

## Extra Homework

* Python: Script that asks for your name and prints 'Hello [name]!'
* Linux: Practice pwd, ls -la, cd, mkdir, touch, rm.
* GitHub: Create repo and push hello\_world.py.
* Fun: OverTheWire Bandit Level 0 (SSH login).

# Day 2 (Tuesday)

## Core Tasks

* Python: Strings (slicing, concatenation), input(), build greeting program.
* Labs: Install Git, create GitHub account, connect repo.

## Extra Homework

* Python: Build a unit converter (inches ↔ cm, pounds ↔ kg).
* Git: Make a 'dev' branch, add converter script, merge to 'main'.
* Linux: Create 2 users with adduser, set permissions.
* Fun: Bandit Level 1 (finding password in a file).

# Day 3 (Wednesday)

## Core Tasks

* Python: Input/output practice, build a calculator (add, subtract, multiply, divide).
* Labs: Linux CLI basics, explore file system structure.

## Extra Homework

* Python: Extend calculator with try/except for division errors.
* Linux: Bash script that creates dated folder, writes 'Hello Linux' inside.
* Git: Commit Python + bash scripts to repo.
* Fun: Bandit Level 2 (files with spaces in names).

# Day 4 (Thursday)

## Core Tasks

* Python: Type conversions, debugging, temperature converter (C ↔ F).
* Labs: AWS Free Tier signup, deploy EC2 Linux instance.

## Extra Homework

* Python: Task list script (add/remove/print tasks).
* Cloud: Create S3 bucket, upload + download text file.
* Linux: Practice cp, mv, less, tail -f.
* Fun: Bandit Level 3 (hidden files).

# Day 5 (Friday)

## Core Tasks

* Python: Mini project – Daily Task Logger (lists + input).
* Labs: Write lab report on VM, GitHub, AWS setup.

## Extra Homework

* Python: Solve 1 HackerRank beginner problem (e.g., averages).
* Git: Add README.md to repo with explanations.
* Linux: Customize .bashrc prompt.
* Fun: Bandit Level 4 (human-readable files).

# End of Week 1 Deliverables

- Python: At least 6–7 scripts (Hello World, Greeting, Calculator, Converter, Task Logger, etc.)  
- Linux: 1 Bash script + basic CLI practice documented  
- GitHub: Repo with commits, branches, README  
- Cloud: AWS account + EC2 instance + S3 bucket  
- Security Fun: Bandit Levels 0–4 completed