Placement Empowerment Program

Cloud Computing and DevOps Centre

60 Days of DevOps Challenge

Day 5: Python Basics for DevOps

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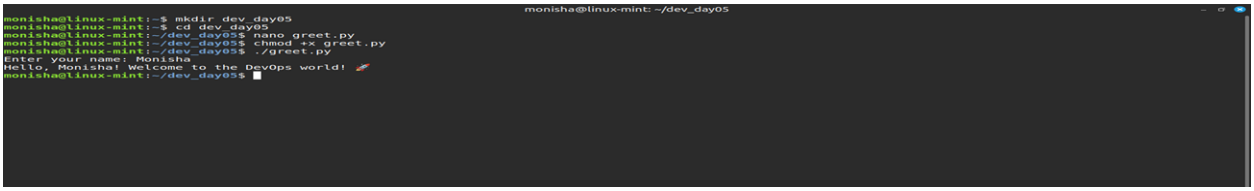
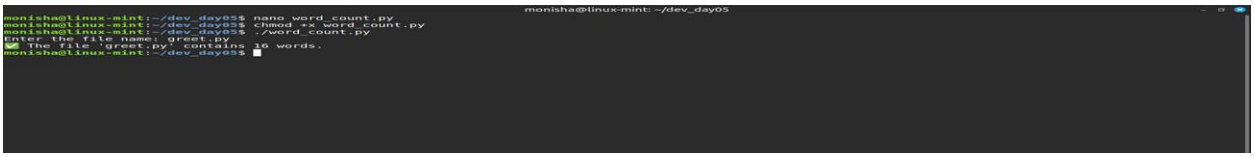
This **Python DevOps POC (Proof of Concept)** showcases how Python can be effectively used

for **automation, scripting, monitoring, and system administration** in DevOps.

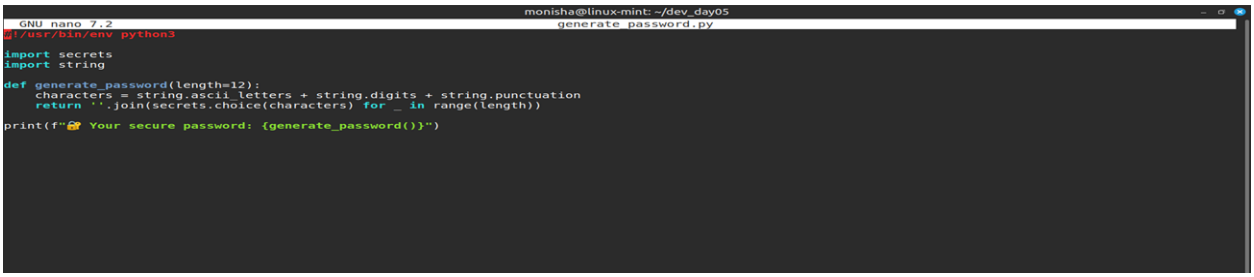
Challenge 1: Create a Python program that accepts a user's name as input and prints a greeting message.



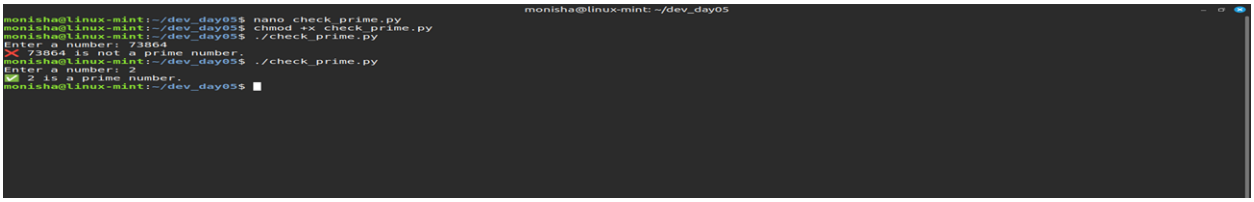
Challenge 2: Write a script that reads a text file and counts the number of words in it.

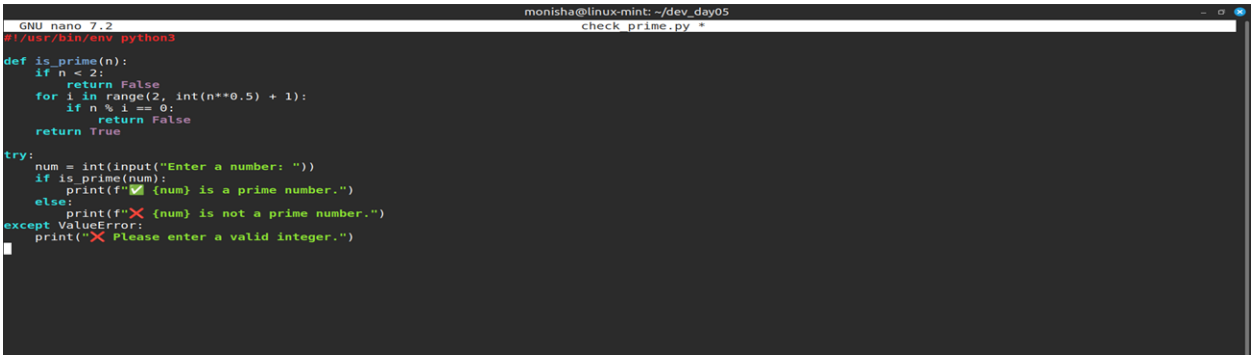


Challenge 3: Create a Python script that generates a random password of 12 characters.



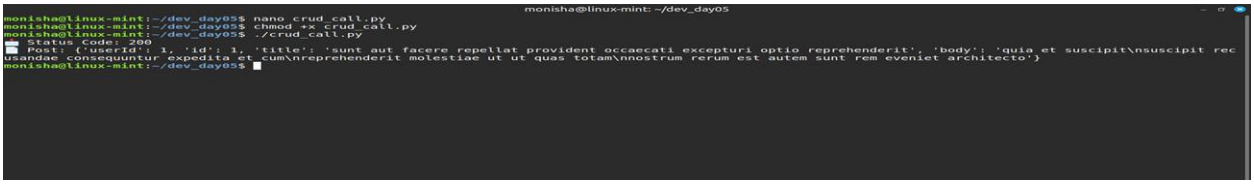
Challenge 4: Implement a Python program that checks if a number is prime.

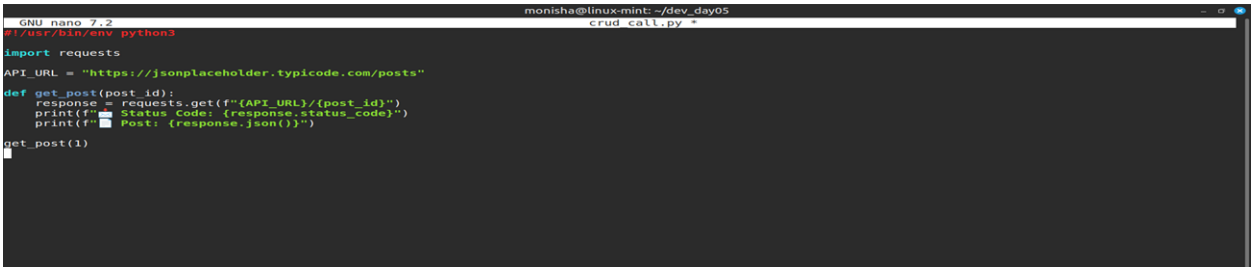




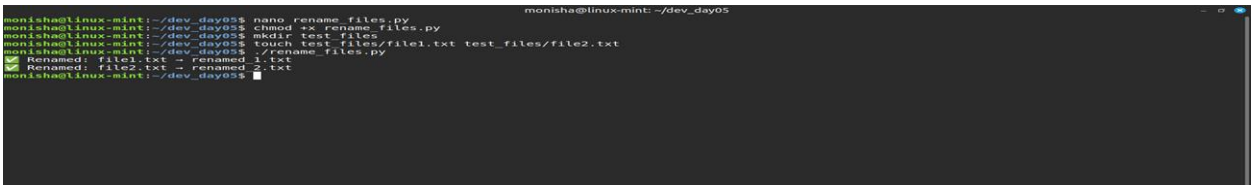
Challenge 5: Write a script that reads a list of server names from a file and pings each one.

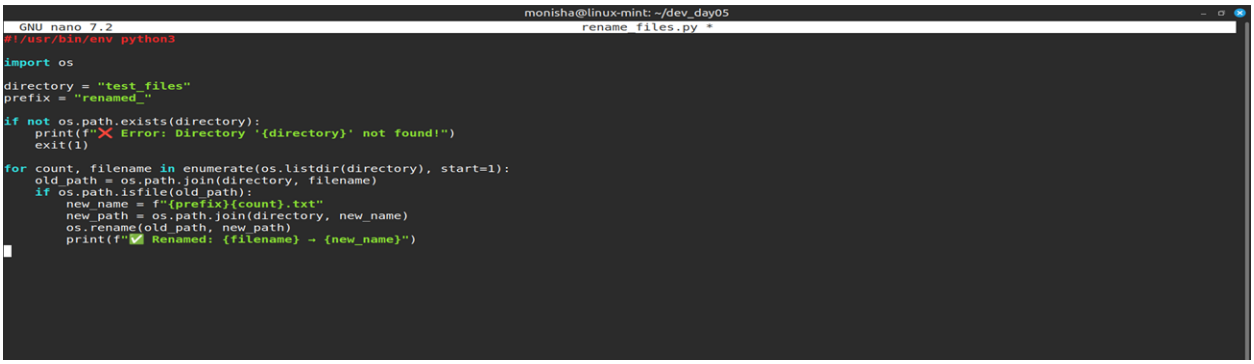
Challenge 6: Use the requests module to fetch and display data from a public API (e.g., JSONPlaceholder).





Challenge 7: Automate a simple task using Python (e.g., renaming multiple files in a directory).





Challenge 8 : Create a Python script that monitors CPU and memory usage every 5 seconds.

Challenge 9 : Write a Python program that creates a user in Linux using subprocess and verifies the creation.