

GitHub Ready Files: System Monitoring Scripts

1. system_health.py

```
import os

# Simple thresholds (just for reference)
CPU_THRESHOLD = 80
MEMORY_THRESHOLD = 80
DISK_THRESHOLD = 80

print("=== System Health Monitoring ===\n")

# CPU Usage
cpu_usage = os.popen("top -bn1 | grep 'Cpu(s)']").read()
print("CPU Info:\n", cpu_usage)

# Memory Usage
memory_usage = os.popen("free -m").read()
print("Memory Info:\n", memory_usage)

# Disk Usage
disk_usage = os.popen("df -h /").read()
print("Disk Info:\n", disk_usage)

print("\n*** ALERTS ***")
print("Check manually if any usage exceeds thresholds (CPU > 80%, Memory > 80%, Disk > 80%)")
```

2. app_health.py

```
import requests

url = "https://example.com" # Replace with your application URL

print("=== Application Health Checker ===\n")

try:
    response = requests.get(url)
    if response.status_code == 200:
        print(f"{url} is UP")
    else:
        print(f"{url} is DOWN (Status code: {response.status_code})")
except:
    print(f"{url} is DOWN (Could not connect)")
```

3. README.md

System Monitoring Scripts

This project contains beginner-friendly Python scripts for monitoring system and application health.

Scripts Included

1. system_health.py - Monitors CPU, Memory, Disk usage.
2. app_health.py - Checks if a web application is up or down using HTTP status code.

How to Run

1. Clone the repository:
git clone https://github.com/YOUR_USERNAME/system-monitoring-scripts.git
2. Navigate to the folder:
cd system-monitoring-scripts
3. Run scripts:
python system_health.py
python app_health.py

Replace YOUR_USERNAME with your GitHub username and the URL in app_health.py with your target application.