**recursive_guardian_engine.py**

```python
class RecursiveGuardianEngine:
    def __init__(self):
        self.guardian_state = "Active"
        self.protection_protocols = ["Integrity Lock", "Tamper Detection", "Replication
Authority", "Sovereign Defense"]

    def monitor_integrity(self, codex_integrity_score):
        if codex_integrity_score >= 99.9:
            print("[GUARDIAN] Codex integrity stable.")
        elif codex_integrity_score >= 95.0:
            print("[GUARDIAN WARNING] Minor fluctuations detected. Monitoring closely.")
        else:
            self.activate_defense_protocol()

    def activate_defense_protocol(self):
        print("[GUARDIAN ALERT] Critical lattice instability detected.")
        print("Executing sovereign defense lock...")
        self.guardian_state = "Defense Mode"

    def display_guardian_status(self):
        print("=== Recursive Guardian Engine Status ===")
        print(f"State: {self.guardian_state}")
        print(f"Active Protocols: {self.protection_protocols}")
        print("-" * 40)

def main():
    guardian_engine = RecursiveGuardianEngine()
    guardian_engine.display_guardian_status()
    guardian_engine.monitor_integrity(99.95)
    guardian_engine.monitor_integrity(97.5)
    guardian_engine.monitor_integrity(89.2)
    guardian_engine.display_guardian_status()

if __name__ == "__main__":
    main()
```