

1. PC Running Slowly - Diagnose Performance Issue

```
START
Check CPU usage using "top" or "htop"
IF CPU > 80%
    Identify top processes
    Kill unnecessary process
Check RAM usage
IF RAM > 90%
    Recommend closing apps or upgrading RAM
Check disk usage using "df -h"
IF disk almost full
    Clean temp and cache folders
Display all finding to user
END
```

2. Wi-Fi Not Working - Network Troubleshooting

```
START
Check wireless status using "nmcli"
IF Wi-Fi is disabled
    Enable using "nmcli radio wifi on"
Check IP address using "ip a"
IF no IP assigned
    Restart NetworkManager service
    Reconnect to saved network
Ping google.com
IF ping fails
    Alert user to check router or ISP
END
```

3.Suspicious Email Detected - Phishing Logic

```
START
Receive incoming email
Check sender domain
IF domain looks suspicious or misspelled
    Flag as phishing
Scan email for urgent language
Scan for fake or shortened links
IF multiple signs found
    Mark as phishing
    Report and delete
END
```

4.USB Drive Inserted - Safety Scan Procedure

```
START
Detect USB using "lsblk" or "dmesg"
Mount USB read-only if possible
Run antivirus scan using "clamscan"
IF infected files found
    Do not open USB
    Alert user
IF clean
    Allow access with caution
END
```

5.Password Strength Checker Logic

START

User inputs password

Check password length

IF length < 12

 Mark as weak

Check for uppercase, lowercase, numbers, symbols

IF missing any category

 Suggest improvement

IF all checks passed

 Mark as strong

Display result to user

END