System Resource Monitoring Script

# Overview

This shell script monitors the status of your system's RAM and disk usage. It checks if the available RAM is below a specified threshold (200 MB) and if the disk usage exceeds a specified threshold (70%). If either condition is met, it outputs a warning message.

# Requirements

- Bash shell  
- `free` command for checking memory usage  
- `df` command for checking disk usage  
- `awk`, `grep`, `tr`, and `sort` utilities for processing command outputs

# Usage

1. Save the script to a file, for example, `check\_status.sh`.

2. Make the script executable by running:

`chmod +x check\_status.sh`

3. Run the script:

`./check\_status.sh`

# Script Details

1. **FREE\_RAM**: Retrieves the amount of free RAM in MB using `free -mt`, filtering the "Total" line, and extracting the fourth column.
2. **FREE\_DISK**: Retrieves the highest disk usage percentage from the `df` command output, excluding the "Filesystem|tmpfs" header and the `/boot` filesystem, then selects the highest value.
3. **Conditional Checks**:
   1. If free RAM is less than or equal to 200 MB, a warning is displayed.
   2. If the highest disk usage percentage is greater than or equal to 70%, a warning is displayed.
   3. Otherwise, it prints that everything is okay, along with the current free RAM and disk usage.

# Example Output

``` Warning !!! RAM running low :- 150 M ```  
or  
``` Warning !!! DISK running low :- 75 % ```  
or  
``` All good :)  
RAM -> 500 M  
DISK -> 45 % ```

# Adding to Crontab

To automate the script to run at regular intervals, add it to your crontab:

1. Open crontab:

``` crontab -e ```

2. Add the following line to run the script every hour:

```0 \* \* \* \* /path/to/check\_status.sh ```

3. Save and exit the editor.