What is BSOD (Blue Screen of Death)

BSOD is a **critical system error screen** shown by Windows when the system encounters a fatal error it cannot recover from without restarting.

Topic: Blue Screen of Death (BSOD)

🔹 **Types of BSOD:**

1. **Immediate crash** – Within 10 seconds, the system gives a BSOD.
2. **Delayed crash** – System works for 3–5 minutes before crashing.

🔹 **Possible Reasons:**

- Recent hardware changes
- Latest software/driver updates
- Bad sectors in the hard disk

🔹 **Heading: Steps for Troubleshooting**

Troubleshooting Steps Continued (mixed with Bengali):

3. If BSOD appears after 3–5 minutes:
    - Press `Win + R`, type `msconfig`.
    - Go to **Services** tab → check **Hide all Microsoft services** → Click **Disable All**.
    - This performs a **Clean Boot**.
    - Also go to **Control Panel > Programs and Features** or **Settings > Apps**.
    - Uninstall **recent or suspicious applications**.
4. 🔸 This helps if a third-party app is causing BSOD.

More Troubleshooting Tips:

4. Use `cmd` (Command Prompt) to fix HDD bad sectors:
    - Type: `chkdsk`, then `sfc /scannow`
    - These commands check for disk and system file issues and fix them.
5. Run the **Malicious Software Removal Tool**:
    - Press `Windows + R`, type `mrt`.

    - Choose **Full Scan** to detect and remove malware.

✅ Summary of Actionable Steps:

1. **Check for QR code on BSOD** for specific error info.
2. **Clean Boot** using `msconfig` to disable non-Microsoft services.
3. **Uninstall recent/suspicious apps**.
4. Use **chkdsk** and **sfc /scannow** to repair disk/system files.
5. Use **MRT tool** to remove malware.

🧾 Types of BSOD

🔹 Type 1:

- BSOD appears **within 10 seconds** of starting the system.
- You don't get enough time to use the system.

🔹 Type 2:

- The system runs for **3 to 5 minutes**, then shows BSOD.

⚠️ Common Reasons for BSOD

1. **Recent hardware changes** – e.g., installing new RAM, GPU, etc.
2. **Latest Windows updates or driver/software updates**.
3. **Bad sectors in the hard disk** (HDD/SSD corruption or failure).

🔧 Troubleshooting Steps

✅ Step 1: Read QR Code on BSOD Screen

- When BSOD appears, **note the QR code** or the **STOP error code**.
- Use your phone to scan the QR code for Microsoft's explanation and possible solutions.

✅ Step 2: Perform a Clean Boot (For Type 2 BSOD – appears after a few minutes)

1. Press **`Windows + R`**.
2. Type `msconfig` → Press **Enter**.
3. Go to the **Services** tab.
4. Check the box **"Hide all Microsoft services"**.
5. Click **"Disable all"**.
6. Go to **Startup** tab → Open **Task Manager** → Disable unnecessary startup programs.
7. Click **Apply** → Restart the computer.
8. This will start Windows with only essential Microsoft services, which helps identify third-party conflicts.

✅ Step 3: Uninstall Recently Installed Apps

1. Open **Control Panel** or **Settings > Apps**.
2. Click on **"Programs and Features"**.
3. Look for any **recently installed software**.
4. Right-click and select **Uninstall**.
    - Especially uninstall any app that was installed just before BSODs began.

✅ Step 4: Fix Disk Errors

1. Press **`Windows + R`**, type `cmd`, then **press Ctrl + Shift + Enter** to open as Administrator.

2. Run the following commands one by one:

```
chkdsk /f /r
```

    - This checks for and repairs bad sectors on the hard drive.
    - You may be asked to schedule it on next reboot – type `Y`.

```
sfc /scannow
```

- This scans and repairs corrupted system files.

✅ Step 5: Scan for Malware

1. Press **`Windows + R`**, type `mrt`, press Enter.
2. This opens the **Microsoft Malicious Software Removal Tool**.
3. Select **Full Scan**.
4. Run the scan – it may take a while.
5. Remove any threats it finds.

🔁 Final Step: Restart and Observe

- After completing the above steps, **restart your computer**.
- Use the system normally and check if BSOD appears again.

📝 Optional Extra Tips:

- **Update Drivers**: Use Device Manager to update graphics, network, and storage drivers.
- **Check RAM**: Use `Windows Memory Diagnostic` to test your RAM for errors.
- **System Restore**: Roll back to a system restore point before BSOD started (if enabled).