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Exercise

- Look for any object in the real world as many as 5.
- Write down the object's state/attributes and behavior/method.
The more states and behaviors the better. Example:
- TV
- State:
 - Brand
 - Screen size
 - Channel
 - Volume
- Behavior:
 - Turn on
 - Turn off
 - Switch channels
 - Increase volume
 - Reduce volume

My answer :

1. Laptop

- Status:
 - Brand (Apple, hp, Lenovo, etc.)
 - Screen size (14", 16", etc.)
 - RAM capacity
 - Storage capacity
 - Processor type (Intel, AMD, etc.)
 - Operating system (Windows, macOS, Linux)
 - Battery status (full, half, empty)
 - Screen brightness
 - Wi-Fi (connected/not connected)

- Bluetooth (on/off)
 - camera (on/off)
 - microphone (on/off)
 - volume (-+)
 - colour
- Behavior:
 - Turn on
 - Turn off
 - Sleep (sleep mode)
 - Restart
 - Install apps
 - Uninstall apps
 - Connect to Wi-Fi
 - Connect to Bluetooth devices
 - Screenshots
 - Turn camera on/off
 - Turn microphone on/off
 - Transfer files
 - Charge battery

2. **Smartphone**

- Status :
 - Brand (Android, Ios.)
 - Model (iPhone, Galaxy, etc.)
 - Storage capacity
 - Network type (4G, 5G, Wi-Fi)
 - Battery status (full, half, empty)
 - Screen status (locked/unlocked)
 - Installed apps
 - Bluetooth status (on/off)
 - GPS status (on/off)
 - Number of notifications
 - Camera status (on/off)
 - Network condition (strong, weak)
 - volume (large/small)
 - colour
- Behavior :
 - Turn on
 - Turn off
 - Restart
 - Charge battery
 - Open apps

- Install/uninstall apps
- Connect to Wi-Fi
- Connect to Bluetooth devices
- Turn GPS on/off
- Take photos/videos
- Send messages
- Make calls
- Open camera
- Use virtual assistants (Siri, Google Assistant)

3. **Motorbike**

- Status :
 - Brand (Honda, Yamaha, Suzuki, etc.)
 - Model (sport, bebek, matic)
 - Color (black, red, white, etc.)
 - Current speed (km/h)
 - Fuel tank capacity (liters)
 - Engine capacity (cc)
 - Transmission type (manual, automatic)
 - Headlight status (on/off)
 - Turn signal status (on/off)
 - Brake light status (on/off)
 - Horn status (active/inactive)
 - Gear position (1, 2, 3, etc. or N for neutral)
 - Standard status (down/up)
 - Starter status (manual/electric)
 - Suspension status (normal, hard, soft)
 - Tire condition (worn/new)
 - Number of passengers (1, 2, etc.)
 - Key status (installed/uninstalled)
- Behavior :
 - Start the engine (with electric starter or kick starter)
 - Turn off the engine
 - Brake (front, rear)
 - Accelerate
 - Change gears (for manual transmission)
 - Turn (right/left)
 - Turn on/off the headlights
 - Turn on/off the turn signals
 - Turn on/off the brake lights

- Sound the horn
- Open/close the stand
- Refuel
- Park the motorbike
- Get on the passenger
- Check the condition of the tires
- Check the condition of the oil
- Suspension

4. Fan

- Status :
 - Brand (Maspion, Panasonic, etc.)
 - Fan size (16 inch, 18 inch)
 - Wind speed (low, medium, high)
 - Power status (on/off)
 - Oscillation status (active/inactive)
 - Rotation angle (degrees)
 - Timer status (active/inactive)
 - Type (table, wall, floor)
- Behavior :
 - Turn on the fan
 - Turn off the fan
 - Set the wind speed
 - Turn on/off oscillation
 - Set the rotation angle
 - Set the timer
 - Clean the fan
 - Move the fan to another location
 - Move the fan on the wall/floor

5. Bike

- Status :
 - Brand (Polygon, Giant, etc.)
 - Type (mountain, racing, folding)
 - Tire size (26", 27.5", etc.)
 - Number of gears (gear)
 - Brake status (normal, worn)
 - Chain status (clean/dirty)
 - Tire condition (worn/new)
 - Color (black, blue, red)

- Suspension type (hardtail, full suspension)
 - Bike weight (kg)
- Behavior :
 - Pedal the bike
 - Brake (front, rear)
 - Change gears
 - Adjust the suspension
 - Pump the tires
 - Clean the chain
 - Park the bike
 - Attach/disable the bike lights
 - Attach the bike lock
 - Put the bike on the rack