**Angular Lifecycle Hooks Overview**

Angular provides lifecycle hooks that allow you to tap into different stages of a component's life. These hooks include:

1. ngOnChanges
2. ngOnInit
3. ngDoCheck
4. ngAfterContentInit
5. ngAfterContentChecked
6. ngAfterViewInit
7. ngAfterViewChecked
8. ngOnDestroy

**Explanation of Each Hook**

1. **constructor()**:
   * Called when the component is initialized, before any lifecycle hooks.
   * **Demo**: The console will show "Constructor called" immediately when the component is created.
2. **ngOnChanges()**:
   * Called when an input property (@Input()) changes.
   * **Demo**: When you click the **Update Input** button, it will log the changes to the input value in the console.
3. **ngOnInit()**:
   * Called once, after the first ngOnChanges() when the component is initialized.
   * **Demo**: Logs "ngOnInit called" to the console when the component is first loaded.
4. **ngDoCheck()**:
   * Called with every change detection run, even if no inputs change.
   * **Demo**: Logs "ngDoCheck called" every time Angular performs change detection.
5. **ngAfterContentInit()**:
   * Called once after content is projected into the component (when Angular first renders any <ng-content>).
   * **Demo**: Logs "ngAfterContentInit called".
6. **ngAfterContentChecked()**:
   * Called after the projected content has been checked by the change detection mechanism.
   * **Demo**: Logs "ngAfterContentChecked called" after each check.
7. **ngAfterViewInit()**:
   * Called once after the component’s view (and child views) has been initialized.
   * **Demo**: Logs "ngAfterViewInit called" after the view is initialized.
8. **ngAfterViewChecked()**:
   * Called after the component’s view (and child views) has been checked.
   * **Demo**: Logs "ngAfterViewChecked called" after each view check.
9. **ngOnDestroy()**:
   * Called just before the component is destroyed.
   * **Demo**: If you remove the component from the DOM, this hook will log "ngOnDestroy called".