## Loop Examples - Python, Java, and JavaScript

## **■** Python Examples

- 1 For loop over list: fruits = ['apple', 'banana'] for fruit in fruits: print(fruit)
- 2 For loop with range and step: for i in range(1, 10, 2): print(i)
- 3 While loop with condition: i = 1 while  $i \le 5$ : print(i) i += 1
- 4 For loop with if condition: for i in range(1,6): if i%2==0: print(i, 'even') else: print(i, 'odd')
- 5 For-else: for i in range(3): print(i) else: print('Done')

## ■ Java Examples

- 1 Classic for loop: for(int i=1; i<=5; i++) { System.out.println(i); }
- 2 Enhanced for loop (array iteration): String[] fruits = {'apple', 'banana'}; for(String fruit : fruits){
  System.out.println(fruit); }
- 3 While loop: int i = 1; while(i<=5){ System.out.println(i); i++; }</p>
- 4 For loop with if: for(int i=1;i<=5;i++){ if(i%2==0) System.out.println(i + ' even'); else System.out.println(i + ' odd'); }
- 5 Infinite loop: for(;;){ System.out.println('Forever'); }

## ■ JavaScript Examples

- 1 Classic for loop: for(let i=1;i<=5;i++){ console.log(i); }
- 2 For-of loop: let fruits=['apple', 'banana']; for(let fruit of fruits){ console.log(fruit); }
- 3 While loop: let i=1; while(i<=5){ console.log(i); i++; }</p>
- For loop with if: for(let i=1;i<=5;i++){ if(i%2==0) console.log(i+' even'); else console.log(i+' odd'); }
- 5 Infinite loop: for(;;){ console.log('Forever'); }