

K-HUB DAY 3 REPORT

Date: 4th-Aug-2025

Venue: KIET Campus / K-Hub Lab

Attended By: Junior Developers, Senior Developers, Team Leads

Day 2 of Python Basics – Loops & Functions

Loops:

1. **for Loop**
 - `for i in range(5): print(i)`
 - Looping through a list: `for item in [1, 2, 3]: print(item)`
2. **while Loop**
 - Simple condition: `while count < 5: count += 1`
 - Sentinel loop: until user enters 'q'
3. **Loop Control Statements**
 - `break`: exit when a condition is met
 - `continue`: skip even numbers
4. **Loop with else**
 - `else` block runs only if loop didn't break
5. **Nested Loops**
 - Pattern printing using nested for loops



Functions:

- **Defining & Calling**
 - `def greet(): return 'Hello'`
 - `print(greet())`
- **Arguments**
 - Positional: `add(a, b)`
 - Default: `def greet(name='User')`
 - `*args`: multiple arguments
 - `**kwargs`: dictionary of args
- **Variable Scope**
 - Local and Global
 - Using `global` keyword
- **Lambda Functions**
 - `square = lambda x: x*x`
 - Used with `map()` and `filter()`



Practice: 2 programs for each concept: loop types, function types
Worked both independently and in guided sessions
