**Theory:**

**• Understanding the role of break, continue, and pass in Python loops**

**Role of break, continue, and pass in Python Loops**

1. **break**:
   * The break statement is used to exit the loop prematurely, regardless of the loop condition. It stops further iterations and immediately exits the loop.
   * It is typically used when a specific condition is met, and there is no need to continue the loop.
2. **continue**:
   * The continue statement is used to skip the current iteration of the loop and proceed to the next iteration. The loop does not terminate; it just jumps to the next cycle.
   * This is useful when we want to skip some iterations based on a condition but still want the loop to continue.
3. **pass**:
   * The pass statement is a placeholder that does nothing. It is often used as a "no-op" in loops or functions where code is syntactically required but not yet implemented.
   * It allows the loop or function to function without causing errors even if there’s no logic inside.