

# Python Loop Interview Questions with Answers

1. What is a loop in Python?

Answer: A loop is used to execute a block of code repeatedly until a condition is met.

2. What are the two types of loops in Python?

Answer: for loop and while loop.

3. Difference between for loop and while loop.

Answer: for: Iterates over a sequence. while: Runs until condition becomes False.

4. Program to print 1 to 10 using for loop.

Answer: `for i in range(1,11): print(i)`

5. Program to print 1 to 10 using while loop.

Answer: `i=1` `while i<=10:` `print(i)` `i+=1`

6. What is range() used for?

Answer: Generates sequence of numbers, e.g. `range(5)` -> 0,1,2,3,4

7. Iterate through a list using a for loop.

Answer: `for f in ['apple','banana','mango']:` `print(f)`

8. What is an infinite loop? Give example.

Answer: A loop that never ends. `while True: print('Infinite')`

9. How can you stop an infinite loop?

Answer: Use break or interrupt manually (Ctrl+C).

10. Output of loop with else block.

Answer: 0 1 2 Done

11. Difference between break and continue.

Answer: break exits loop; continue skips iteration.

12. Example using break and continue.

Answer: `for i in range(1,6):` `if i==3: continue` `if i==5: break` `print(i)`

13. Can we use else with loops?

Answer: Yes, executes if loop finishes without break.

14. How to iterate through a dictionary?

Answer: `for k,v in {'a':1,'b':2}.items(): print(k,v)`

15. Print even numbers between 1 to 10.

Answer: `for i in range(1,11):` `if i%2==0: print(i)`

16. Example of nested loops.

Answer: `for i in range(2):` `for j in range(3): print(i,j)`

17. Difference between pass and continue.

Answer: pass does nothing; continue skips to next iteration.

18. Sum of numbers from 1 to 100 using loop