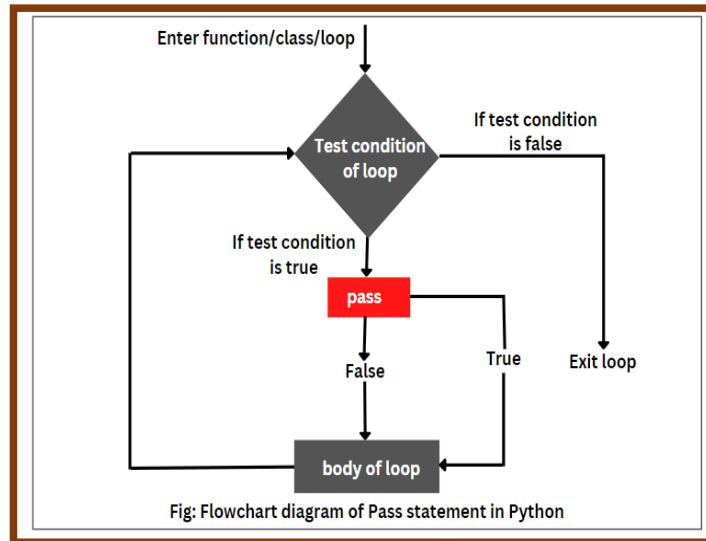


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**Pass Statement in Python**

**Pass Statement in Python:**

- The **pass** statement in Python is a null statement – that means it **does nothing** when executed.
- It acts as a **placeholder** for future code.
- When Python encounters pass, it **skips it and continues** with the rest of the code.



**Why do we use Pass Statement?**

- To avoid syntax errors in empty code blocks (e.g., functions, classes, loops, conditionals).
- As a placeholder when you're planning code but haven't written the logic yet.
- To temporarily skip execution of a block of code during development or debugging.
- In abstract methods or base classes where you want to define a method that will be overridden later.
- To keep code syntactically valid while you're still building out the program structure.

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**Pass Statement in Python**

Rules of Pass Statement in Python

Sr.no	Rule / Behavior	Description
1	pass is a statement	It is a syntactically valid statement that does nothing.
2	Used as a placeholder	Helps you write empty blocks during development.
3	Prevents syntax errors	Required when Python expects a block but no code is present.
4	Can be used in control structures	Works in if, for, while, try, except, def, class, etc.
5	No effect at runtime	It doesn't perform any operation when the program runs.
6	Cannot be used as an expression	It must be used as a standalone statement (not in a lambda, for example).
7	Not the same as break, continue, or return	It doesn't alter control flow; it's purely structural.
8	One-line syntax	Just write pass – no need for curly braces, semicolons, or blocks.

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Pass Statement in Python

Solved Example 1: Using pass in an if statement

```
x = 10  
  
if x > 5:  
    pass # To be implemented later  
else:  
    print("x is 5 or less")
```

Explanation:

Here,  $x > 5$  is true, but we haven't yet decided what to do in that case. So, we used pass – Python just skips it and moves on.

Solved Example 2: Using pass in a loop

```
for i in range(5):  
    pass  
print("Loop finished")
```

Explanation:

The loop runs from 0 to 4, but we have nothing to do inside it yet. The pass statement allows us to keep the loop structure valid.

Assignment

Ques 1: Write a Python program that goes through numbers 1 to 10. If the number is 5, just use pass (do nothing). Print all other numbers.

Expected Output Example:

```
1  
2  
3  
4  
6  
7  
8  
9  
10
```

Ques 2: Write a Python program that prints numbers from 1 to 10, but skips all even numbers using the continue statement.

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Pass Statement in Python

Expected Output:

1  
3  
5  
7  
9

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