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Computer Science (Python)

Class 11 & 12 Quick Reference

A free study resource by **Toppers Hub Academy**

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Python Basics

- Data types: int, float, str, bool, list, tuple, dict, set.
- Variables need no declaration: `x = 10` assigns an integer.
- Indentation defines blocks – no braces are used.
- `input()` reads user data; `print()` displays output.

Control Flow & Functions

- Conditionals: `if`, `elif`, `else` decide the flow.
- Loops: `for` iterates over sequences; `while` repeats on a condition.
- Functions are defined with `def` and can return values.
- Lists are mutable and ordered; tuples are immutable.

Class 12 Topics

- File handling: `open()`, `read()`, `write()`, `close()`.
- Stacks follow Last-In-First-Out (LIFO); queues follow First-In-First-Out (FIFO).
- SQL basics: `SELECT`, `INSERT`, `UPDATE`, `DELETE` queries.
- Python connects to MySQL to build simple database applications.

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