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Academic Education CBSE › Class 12 Science › Computer Science

Python Revision

Master Python Basics for Class 12 Computer Science Success!

DEFINITION

Python is a versatile programming language used for various applications, emphasizing readability and simplicity. It is essential for students to grasp its fundamental concepts for effective coding.

KEY CONCEPTS

Variables

Variables store data values and can be changed during program execution.

Data Types

Python has several data types like integers, floats, strings, and booleans to define the nature of data.

Control Structures

Control structures like loops and conditionals dictate the flow of the program based on certain conditions.

Functions

Functions are reusable blocks of code that perform specific tasks and can take inputs and return outputs.

Lists and Tuples

Lists are mutable sequences, while tuples are immutable, both used to store collections of items.

EXAMPLES

→ x = 5; print(x)

→ if x > 10: print('Greater')

→ def add(a, b): return a + b

MEMORY TIPS

★ Remember 'PEMDAS' for order of operations in expressions.

★ Use 'DRY' (Don't Repeat Yourself) to recall the importance of functions.

★ Visualize data types as containers: boxes for integers, jars for strings.

COMMON MISTAKES

✗ Confusing lists with tuples and their mutability.

✗ Forgetting to include colons at the end of control structure statements.

✗ Not properly indenting code, leading to syntax errors.

QUICK RECAP

Python is essential for programming in Class 12 Computer Science. Focus on understanding variables, data types, and functions. Practice coding examples to solidify your knowledge.