Python Programming Workshop

Program Overview:
This 3-day workshop is designed for 3 hours *(split in 3 days 1 hour per day)* to introduce children aged 8 to 13 to the fundamentals of Python programming. Participants will learn basic programming concepts, explore hands-on coding exercises, and develop problem-solving skills through interactive activities.

Objectives:

- Familiarize participants with the Python programming language and its applications.
- Teach participants fundamental programming concepts, such as variables, data types, and control structures.
- Develop participants' ability to write and run simple Python programs.
- Encourage participants to think critically and creatively to solve programming challenges.
- Inspire participants to continue their exploration of Python and coding.

Target Audience:
Kids from 8 to 13 years old

Prerequisites: Basic English.

Duration:
3 hours

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Programme

Modules
Day 1 (1hour)
• Welcome and icebreaker activities
• What is Python? Understanding the purpose and uses of the language
• Setting up the programming environment
• Introducing basic Python syntax and data types
• Hands-on activity: Creating simple programs and exploring Python's
• Interactive shell
Day 2 (1 hour)
• Variables and assignment
• Arithmetic operations and expressions
• Conditional statements (if-else)
• Loops (for and while)
• Interactive coding exercises and problem-solving
Day 3 (1 hour)
• Functions and code organization
• Strings, lists, and basic data structures
• Importing and using Python libraries
• Collaborative project: Designing and implementing a simple Python program