



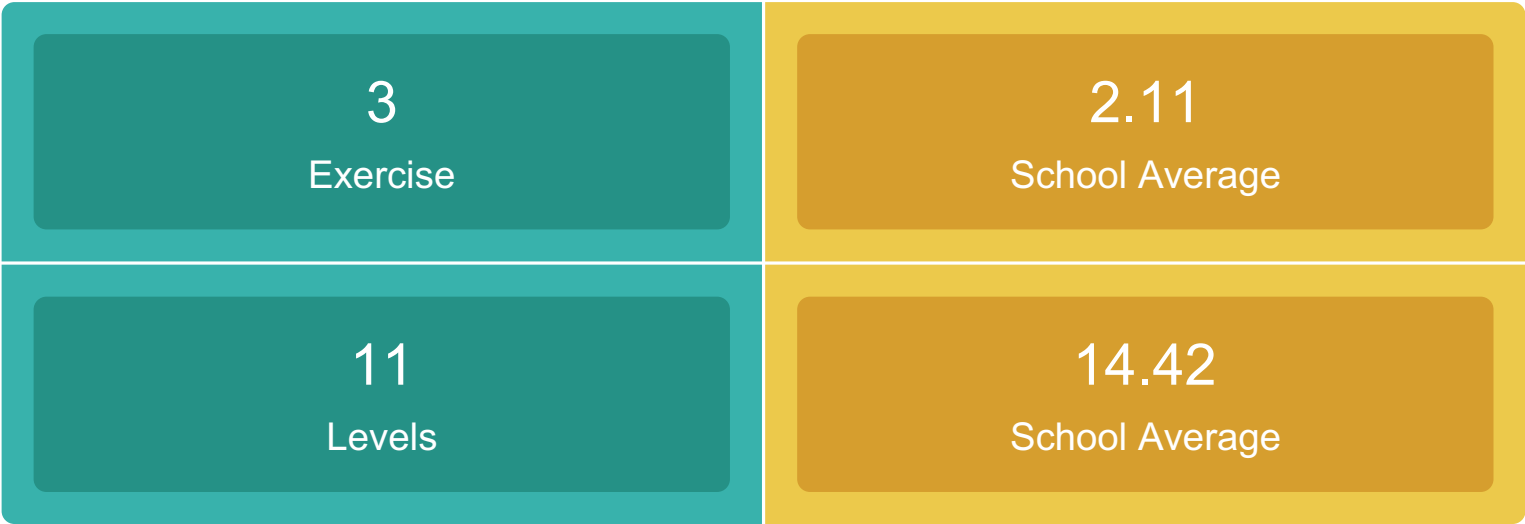
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Jagriti Jitendra Jha

Eva World School

5 - Onyx

# Overview:



# Table:

All exercises			
Exercise	Levels	Concepts	Blocks Used
Swamp conditionals	4/4	Conditional Statements, Loops, Variables, Sequence, Events, Functions, Decomposition, Algorithmic Thinking	71
Fun with Basics	3/3	Sequence, Algorithmic Thinking	41
Loopy Loops	4/4	Loops, Debugging	69

# List of Concepts:

## Decomposition

Breaking down a problem into smaller, more manageable parts.

Computational Thinking Concepts

## Pattern Recognition

Identifying similarities or patterns within problems.

## Abstraction

Simplifying complex problems by focusing on essential details and ignoring unnecessary information.

## Algorithmic Thinking

Developing step-by-step instructions or rules to solve a problem.

## Sequence

Understanding and writing instructions in a specific order.

## Variables

Introducing the concept of containers for storing information.

## Loops

Repeating a set of instructions multiple times.

## Conditional Statements

Making decisions in the program based on certain conditions.

## Events

Reacting to user inputs or specific occurrences in the program.

## Functions

Creating reusable blocks of code to perform specific tasks.

## Data Types

Introducing the idea of different types of data, such as numbers, text, and Boolean values.

# Input and Output

Understanding how programs receive information (input) and produce results (output).

Programming Concepts

## Debugging

Identifying and fixing errors or mistakes in the code.

Programming Concepts

## Comments

Adding explanations and notes within the code for better understanding.

Programming Concepts

## Event Handling

Responding to events triggered by user actions or other parts of the program.

Programming Concepts

## Graphics and Animation

Introducing basic concepts of drawing and creating movement in a program.

Programming Concepts

## Simulation

Creating virtual scenarios to model real-world situations.

Programming Concepts

## Collaboration

Encouraging teamwork and sharing of code with others.

Programming Concepts

## Iteration

Repeating a set of instructions or a process.

Programming Concepts