

The background is a dark blue field filled with various line-art icons in light blue, yellow, and red. These icons include: a speech bubble with 'HTML5', another with 'JS', a speech bubble with binary code '01101000' and '01101001', a Python logo, a satellite, a globe, a laptop, a desktop tower, a keyboard, a mouse, a Wi-Fi symbol, a magnifying glass, a group of stylized people, gears, a rocket, a satellite dish, a planet with a ring, a network diagram, an '@' symbol, a smartphone, and the text '</>tk' in multiple colors and sizes.

</>tk

Arsh Ashish Panchal

SKS

8 - Titanite

# Overview:

7  
Exercise

58  
Levels

2.25  
School Average

16.59  
School Average

# Table:

All exercises			
Exercise	Levels	Concepts	Blocks Used
Fun with Basics	10/10	Sequence, Algorithmic Thinking	0
Loopy Loops	11/12	Loops, Debugging	161
Dog and the loops	8/8	Loops, Variables, Functions	206
Swamp conditionals	4/4	Conditional Statements, Loops, Variables, Sequence, Events, Functions, Decomposition, Algorithmic Thinking	71
Functions on the field	9/9	Conditional Statements, Loops, Variables, Sequence, Events, Functions, Decomposition, Algorithmic Thinking	211
Fun with Basics - Grade 1 & 2	8/8	Sequence, Algorithmic Thinking	0
Loopy Loops - Grade 1/2	8/8	Loops, Debugging	0

# List of Concepts:

# Decomposition

Breaking down a problem into smaller, more manageable parts.

Computational Thinking Concepts

# Pattern Recognition

Identifying similarities or patterns within problems.

Computational Thinking Concepts

# Abstraction

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

Computational Thinking Concepts

# Algorithmic Thinking

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

Computational Thinking Concepts

# Sequence

Understanding and writing instructions in a specific order.

Programming Concepts

# Variables

Introducing the concept of containers for storing information.

Programming Concepts

# Loops

Repeating a set of instructions multiple times.

Programming Concepts

# Conditional Statements

Making decisions in the program based on certain conditions.

Programming Concepts

# Events

Reacting to user inputs or specific occurrences in the program.

Programming Concepts

# 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).

## Debugging

Identifying and fixing errors or mistakes in the code.

## Comments

Adding explanations and notes within the code for better understanding.

## Event Handling

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

## Graphics and Animation

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

## Simulation

Creating virtual scenarios to model real-world situations.

## Collaboration

Encouraging teamwork and sharing of code with others.

## Iteration

Repeating a set of instructions or a process.

