## CLASS -VIII CODING Session - 2025-26

Date	Торіс	Ex./ Demo./Practicals
Important links	Student HandBook- https://cbseacademic.nic.in/web_material/cod eingDS/classViiI_Coding_Student_Handbook .pdf	
April	Variables and Datatypes	
No.of	What are Variables? Naming Variables Data Types in Variables Performing operations on Variables What is Variable Initialization?	Practical based on all mentioned operators Activity1 - Can you create a Triangle?
May No.of working days- 19	Conditional in Details  Types of control structures  Understanding of IF-Else ans Else- If Statements  Flow chart - to check no. is Odd or Even using if- else	
July	Get Creative with Loops	
No.of working days- 26	What are the loops  Different types of loops	Activity - Divisibility of a number by 7 or 9 or by both
	· · ·	Activity: Create a staircase using for and while loops
	Nested loops Exit Criteria	Activity: Raining pigs and pandas
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August No.of	Fun with Functions Introduction What exactly are functions? Examples of Functions in Arcade	Activity - 1. Calling a function which has no parameters
working days- 23	Advantages of using functions  How to reduce redundancy using functions  Advantages of using Functions  What are different Function Parameters?	Activity -2. Calling a function with a single parameter

September	Functions in depth	ActivityTo display a cube of number
No.of	Function Parameters	Activity: Calculating Volume of Cuboid
working days- 23	Returning value from a function	Activity- Return Values from Functions
	Calling function to print statements	
October	UNDERSTANDING ARRAYS	Example 1: Is 36 a perfect square?
No.of working days- 18	What arte collections? What are arrays?	Activity – Algorithm for a perfect square
November	UNDERSTANDING ARRAYS	Activity - To create an array and
No.of working days- 23	How can we iterate over collections?	calculate its length
	Modifying Collections	Activity- To print the first element of Array
	Adding Elements During Iteration	
	Removing Elements During Iteration	·
December	Programming with arrays	
No.of working days- 25	Playing with Colors	Activity - To calculate the sum of
	Array declration	elements in an array
	To add an item in an array	Activity - Use of append function
	Working on array using for loop	_
January	Programming with arrays	Activity: Building stairs
No.of	Sorting an Array	A stimite. An amore in assenting and a
working days- 13	Searching in an array	Activity- An array in ascending order using bubble sort
February		
No.of	Submission and assessment of the projects	
working days - 23		

Note: The students will be assessed on the basis of the classroom performance, task assigned as Home Assignments / Holiday Homework / Project.