Coding

Date	Торіс	Ex./ Demo./Practicals
	Student HandBook- https://cbseacademic.nic.in/web_material/cod eingDS/classViil_Coding_Student_Handbook .pdf Variables and Datatypes What are Variables? Naming Variables Data Types in Variables Performing operations on Variables	Project Booklet for Student - https://www.microsoft.com/en- us/makecode https://cbseacademic.nic.in/web_mate rial/codeingDS/classVIII_Coding_Pro ject_Booklet.pdf
No.of working days- 20	What is Variable Initialization? Data Types in programming 1. Integer 2. Floating-Point Number 3. String Math Operations in Programming Logical Operators Relational operators Precedence of logical operators	Practical based on all mentioned operators Activity1 - Can you create a Triangle?
May No.of working days- 11	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	What are the loops	Activity - Divisibility of a number by 7 or9 or by both
	Different types of loops The While Loop The For Loop	Activity: Create a staircase using for and while loops
	Nested loops Exit Criteria	Activity: Raining pigs and pandas
August No.of working days- 24	Fun with Functions Introduction What exactly are functions? Examples of Functions in Arcade	Activity - 1. Calling a function which has no parameters
	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 numbers
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- 19	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- 21	How can we iterate over collections?	calculate its length
	Modifying Collections Adding Elements During Iteration	Activity- To print the first element of Array
	Removing Elements During Iteration	
December	Programming with arrays	
No.of	Playing with Colors	Activity - To calculate the sum of
No.of working days- 25	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 working days- 13	Sorting an Array	
	Searching in an array	Activity- An array in ascending order using bubble sort
February No.of working days - 24	Submission and assessment of the projects	