| Date | Topic | Ex./ Demo./Practicals |
| :---: | :---: | :---: |
| Important links | Student HandBook- <br> https://cbseacademic.nic.in/web_material/cod eingDS/classViiI_Coding_Student_Handbook .pdf | Project Booklet for Student - <br> https://www.microsoft.com/en- <br> us/makecode <br> https://cbseacademic.nic.in/web_mate rial/codeingDS/classVIII_Coding_Pro ject Booklet.pdf |
| April | Variables and Datatypes | Practical based on all mentioned operators <br> Activity1 - Can you create a Triangle? |
| No.of working days22 | What are Variables? <br> Naming Variables <br> Data Types in Variables <br> Performing operations on Variables <br> What is Variable Initialization? <br> Data Types in programming <br> 1. Integer 2. Floating-Point Number 3. String <br> Math Operations in Programming <br> Logical Operators <br> Relational operators <br> Precedence of logical operators |  |
| May | Conditional in Details | Activity- Create a programe in Make code to check if a number is Odd or Even? |
| No.of working days- 18 | Types of control structures <br> Understanding of IF-Else ans Else- If Statements <br> Flow chart - to check no. is Odd or Even using if else |  |
| July | Get Creative with Loops |  |
|  | What are the loops | Activity - Divisibility of a number by 7 or9 or by both |
| No.of working days- 25 | Different types of loops The While Loop The For Loop | Activity: Create a staircase using for and while loops |
|  | Nested loops <br> Exit Criteria | Activity: Raining pigs and pandas |
| August | Fun with Functions | Activity - 1. Calling a function which has no parameters |
| working days-$23$ | Introduction <br> What exactly are functions? <br> Examples of Functions in Arcade |  |
|  | Advantages of using functions | Activity -2. Calling a function with a single parameter |
|  | How to reduce redundancy using functions |  |
|  | Advantages of using Functions |  |
|  | What are different Function Parameters? |  |



