ALGORITHM

• Step-1 :- START  
• Step-2 :- Create a class named as boxes.

• Step-3 :- Create a method named as main. In this function, create a variable named as n to store the number of boxes. Check if the number of boxes is greater than 0 and less than 1000 or not, if true then print Invalid Input and exit the program. Create an array named as cartonSizes to store the various sizes of the boxes. Create a for-loop (from 0 to length of cartonSizes) inside which calculate and print the volume of each box size. Print the total volume of all the boxes.

• Step-4 :- END

VD TABLE

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Variable | Data Type | Description |
| 1  2  3  4  5  6 | n  cartonSizes i  cartonCount total  t | int  int[]  int  int  int  int | To store the number of boxes  To store the various sizes of the boxes To store the index of the array  To store the volume of each box size  To store the total number of all the boxes Used as temporary variable |

OUTPUT

