Task 2: Array Manipulation - prefix sum

AIM: To find the prefix sum of a given array

ALGORITHM:

1. Start
2. Read array size n
3. Read array elements
4. prefix[0] = arr[0]
5. prefix[i] = prefix[i-1] + arr[i]
6. Display prefix array
7. Stop

PROGRAM:

```
import java.util.Scanner;
class prefixSum{
    public static void main(String[] args)
{ Scanner sc = new
Scanner(System.in);
    int n = sc.nextInt();
    int[]arr = new int[n];
    int[] prefix= new int[n];
     for(int i=0; i<n; i++)
        arr[i] =sc.nextInt();
     prefix[0] =arr[0];
     for (int i=1; i<n; i++)
        prefix[i] = prefix[i-1] + arr[i];
     for (int i=0; i<n; i++)
     System.out.println(prefix[i]+" ");
}
}
```

VELTECH	
EX No.	2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	3
VIVA VOCE (3)	3
RECORD (4)	4
TOTAL (15)	15
SIGN WITH DATE	03/02/24

RESULT:- Thus, the prefix sum array is Completed Successfully.

Input

5 10 20 10 5 15

Output

10 30 40 45 60.