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 element
4. prefix (0) = arr (0)
5. prefix (i) = prefix (i-1) + arr (i)
6. Display prefix array
7. Stop

Program

```java
import java.util.Scanner;
class prefix sum{
    Public static void main(string () args){
        scanne
        int n = sc.next int();
        int () arr = new int(n);
        int () prefix = new int (n);
        for (int i = 0; i<n, i++){
        arr (i) = sc. next int();
        Prefix (i) = prefix (i-1) + arr (i);
        for (int i = 0; i<n ; i++){
        System. out. println( prefix(i) + "");
        }
        }
    }
}
```

input :-

10 20 10 5 15

output :-

10 30 40 45 60

Result: Thus, the prefix sum array is completed Successfully.