Note: int x=5, y=6; sum Of 2 Numbers (x, y); //calling Public static void sum Of 2 Numbers ([int a, int b]) { // statement Mote: variables in f' calling & f' declaration are different with same value Mote: only thing matters is for name & number of parameters should be same.

## Sum of all Elements of Array

 $\frac{\partial \mathbf{n} = 0}{\partial \mathbf{n}}$ 

1) input array
2) declare and as 0
3) traverse from 0 to (n-1) in array
3.1) add each element in and variable
4) return and;

```
code
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
  int[] arr = new int[n];
  for (int i = 0; i < n; i++) {
    arr[i] = scn.nextInt();
    int ans = sumOfArray(arr, n);
    System.out.println(ans);
public static int sumOfArray(int[] arr, int n) {
  int ans = 0;
  for (int i = 0; i < n; i++) {
    ans += arr[i];
    return ans;
```

# Maximum of Array

Maximum of Array

$$N = 5$$
 $Avor = 7 - 3 + 8 - 2$ 
 $Avor = 7 - 3 + 8$ 
 $Avor = 7 - 3$ 

i=0,  $(7>-\infty)$ 

i=1, (-3>7)

(=2) (4>7)

i=3, (8>7)

(-2>8) false

1) input array
2) declare ans as 
$$-\infty$$
3.) traverse from 0 to (n-1) in array
3.1) check (coursent ele. > ans)
3.1.1) ans = coursent ele.

4) return ans;

cons = 8

```
_public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
  int[] arr = new int[n];
  for (int i = 0; i < n; i++) {
    arr[i] = scn.nextInt();</pre>
    System.out.println(maximumOfArray(arr, n));
public static int maximumOfArray(int[] arr, int n) {
    int ans = Integer.MIN_VALUE;
}
return ans;
```

### **GKSTR35 Count\_Even**

$$N = 9$$
 $OUY = 5 2 3 4 7 8 10 9 1$ 
 $Ount = 9$ 
 $Ount = 9$ 
 $Ount = 9$ 
 $Ount = 9$ 
 $Ount = 9$ 

psudo code

```
1) input array
2) declare count = 0;
```

3) traverse from 0 to (n-1)
3.1) Check if current element is even

4) return count

```
code
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr = new int[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    System.out.println(countEven(arr, n));
}
public static int countEven(int[] arr, int n) {
    int count = 0;
    for (int i = 0; i < n; i++) {
        if ( arr[i] % 2 == 0 ) {
            count++;
    return count;
```

### **Product of Elements Except Itself**

### **Product of Elements Except Itself**