reduce

↳ it traverses over an arr.
can return any kind of value we want

[1, 2, 3, 4, 5] → (15) → single value
↳ [[ ], { }]

```
let ans = arr.reduce(sumOfArr);
console.log(ans); // 15

function sumOfArr(acc, cur) {
  1) acc = acc + cur;
  2) return acc;
}
```

(15)

(1, 2) (3, 3) (6, 4) (10, 5)

0 1 2 3 4
[1, 2, 3, 4, 5]

1) a = a + c
a = 3 6 10 15

accumulator

arr.reduce(sumOfArr);

```
arr.reduce(sumOfArr);
this →
{
  for(let i = 1; i < this.length; i++){
    let ans = sumOfArr(ans, this[i]) → this[0];
    let ans = 3
    ans = 3
  }
}
```

sumOfArr(3, 3) → 6
let ans = 6
let ans = sumOfArr(6, 4)
ans = 10 (10, 5)
ans = 15

1) acc (3)
2)
i = 3 4 5
this[i] = 4 5

reduce polyfill

acc = acc + cur
↓
उस state तक
का ans store
store करेगा

[10, -5, 6, 28]
largest value

arr.reduce
{ }

arr.reduce((acc, cur)=>{
});