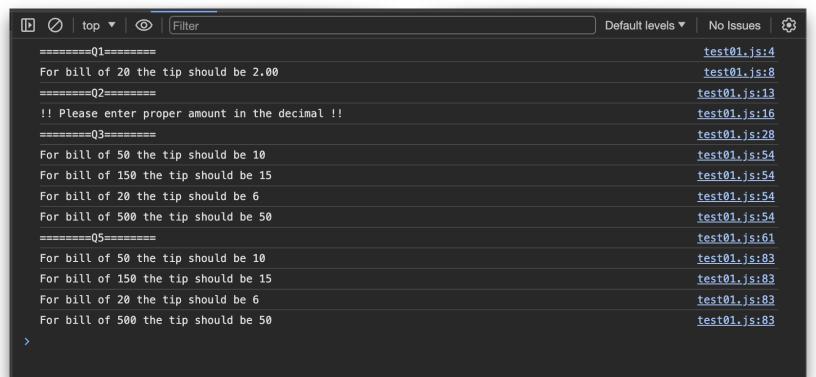
## Task 1

```
Js test04.js
                Js test01.js ×
Week09 > Lab_Javascript_fundamentals > js > Js test01.js > ...
      console.log('======Q1======');
      totalBill = parseInt(prompt('Please enter total bill amount: '))
       tipPercentage = 10 //Percentage
       tipAmount = (totalBill * 0.10).toFixed(2)
       console.log(`For bill of ${totalBill} the tip should be ${tipAmount}`);
 10
       console.log('======Q2======');
       totalBill = prompt('Please enter total bill amount: ')
      if (isNaN(totalBill)) {
           console.log('!! Please enter proper amount in the decimal !!');
      else {
           totalBill = parseInt(totalBill)
           tipPercentage = 10 //Percentage
           tipAmount = (totalBill * 0.10).toFixed(2)
           console.log(`For bill of ${totalBill} the tip should be ${tipAmount}`);
       }
      // Question 3
      console.log('======Q3======');
      // totalBill = prompt('Please enter total bill amount: ')
       // if (isNaN(totalBill)) {
 34
      billTotals = [50, 150, 20, 500]
       tips = []
       for (let i = 0; i < billTotals.length; i++) {</pre>
          const element = billTotals[i];
           tipPercentage = 0 // Percentage
           if (element <= 30) {
               tipPercentage = 30
           } else if (element <= 75) {</pre>
               tipPercentage = 20
           } else {
               tipPercentage = 10
           tipAmount = (element * (tipPercentage / 100)).toFixed(0)
           tips.push(tipAmount)
      // totalBill = parseInt(totalBill)
      // tipPercentage = 10 //Percentage
       // tipAmount = (totalBill * 0.10).toFixed(2)
       for (let i = 0; i < billTotals.length; i++) {</pre>
           const element = billTotals[i];
           console.log(`For bill of ${element} the tip should be ${tips[i]}`);
```



## Task 5

```
57
58
59
60
      console.log('======05======');
61
      function calculateTip(total) {
62
          tipPercentage = 0 // Percentage
64
          if (total <= 30) {
              tipPercentage = 30
          } else if (total <= 75) {</pre>
              tipPercentage = 20
67
          } else {
69
              tipPercentage = 10
70
          return (total * (tipPercentage / 100)).toFixed(0)
71
72
      }
73
74
      billTotals = [50, 150, 20, 500]
      tips = []
75
      for (let i = 0; i < billTotals.length; i++) {</pre>
          const element = billTotals[i];
78
          tipAmount = calculateTip(element)
79
          tips.push(tipAmount)
80
      for (let i = 0; i < billTotals.length; i++) {</pre>
81
82
          const element = billTotals[i];
83
          console.log(`For bill of ${element} the tip should be ${tips[i]}`);
84
      }
```

## Task 4

```
Js test04.js X
Week09 > Lab_Javascript_fundamentals > js > Js test04.js > ...
    // import data from '../js/data';
    // convert comma-separated values into an array
    countries = csv.split(',')
    // convert array into delimited string
    // check if these are arrays
    console.log("% ~ check CSV :", Array.isArray(csv))
 10
    11
 12
    // sort a simple array
 13
 14
    countries.sort()
 15
    console.log("☆ ~ sort countries :", countries)
 16
 17
    // reverse the sort
 18
    countries.sort().reverse()
    19
 20
 21
    // remove the first element
 22
    countries.shift()
 23
    console.log("৵ ~ shift countries :", countries)
 24
 25
    // remove the last element
 26
    countries.pop()
 27
    console.log("

✓ remove by pop countries:", countries)
 28
 29
    // add new elements to the front of the array
    countries.unshift('United States', 'Austria')
 30
    console.log("⊮ ~ remove by pop countries :", countries)
 31
 32
    // search for element
 33
 34
    35
 36
    // search for element index
    37
 38
 39
    // make a new array by extracting from another array
    40
    41
 42
```

```
console.log('----
44
45
     // there are other array methods which you will learn in Ch 10 */
46
47
    // use a loop to output all cities whose continent=="NA"
50
     for (let i = 0; i < cities.length; i++) {</pre>
51
       const element = cities[i];
52
       if (element.continent == 'NA') {
53
          54
    }
    console.log('----');
58
    // use a loop to output gallery names whose country=="USA"
60
    for (let i = 0; i < galleries.length; i++) {</pre>
61
       const element = galleries[i];
62
       if (element?.location?.country == 'USA') {
63
64
          65
66
    }
67
     console.log('----');
69
70
71
     /* use a loop output using document.write a unordered
       list of links to the galleries in the galleries array.
72
       Make the label of the link the name property, and the href
73
       the url property */
74
     document.write('')
75
     for (let i = 0; i < galleries.length; i++) {</pre>
76
77
       const element = galleries[i];
       if (element?.location?.country == 'USA') {
78
79
          document.write(`<a href = ${element.url}> ${element.name} <a/>`)
80
81
     document.write('')
82
83
84
```

## Test your Knowledge #4 Most of the output will be in the console. Eventually there will be a list of galleries here. Albright-Knox Art Gallery. Brooklyn Museum Detroit Institute of Arts J. Paul Getty Museum Metropolitan Museum of Art

