

## ECMA Script – Variables, Arrow Function, Map, Filter, Find

```
gadgets = [{
  'laptop': {
    'hp': '220GB SSD / 8GB RAM / I3 Intel',
    'lenovo': '1 TB HDD / 12 GB RAM / I5 Intel',
    'asus': '500 GB HDD / 250 GB SSD / 8 GB RAM / I7 Intel'
  },
  'smartwatch': {
    'apple': '13 Apps / 20 Hrs Standby / 40 Features',
    'samsung': '14 Apps / 13 Hrs Standby / 34 Features'
  },
  'camera': {
    'sony': '40X Zoom / 3 Hrs Standby / 40 GB Storage',
    'cannon': '30X Zoom / 5 Hrs Standby / 50 GB Storage'
  }
}]

certifications = ['Amazon Solution Architects', 'Azure Cloud Developer', 'Google Cloud Developer']

colors = {
  'red': '#FF0042',
  'blue': '#FF8123',
  'orange': '#FF7831',
  'yellow': '#90FF23',
  'pink': '#77FF22'
}
```

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| Q1. | <p>Write a function to add one more color and color-code in given array then return updated colors's array from function</p> <p><b>Sample Snippet</b></p> <pre>let addNewColor = (colorCode, colorName) =&gt; { } console.log(addNewColor("#FF0011", "voilet"));</pre>                           |
| Q2. | <p>Write a function to count number of products for each gadget and return from function</p> <p><b>Sample Snippet</b></p> <pre>let countProducts = () =&gt; { } console.log("Answer Array = ", countProducts());</pre>   |
| Q3. | <p>Write a function to take any gadget name as argument and check that exist in array or not. Return "true" if exist otherwise return "false"</p> <p><b>Sample Snippet</b></p> <pre>let searchGadget = (userGadgetName) =&gt; { } console.log("searchGadget = " + searchGadget("laptop"));</pre> |

Q4.	<p>Write a function to take any gadget name as argument and delete from array. show updated array record return from function</p> <p><b>Sample Snippet</b></p> <pre>let deleteGadget = (userGadgetName) =&gt; {   }   console.log("delete gadget = " + deleteGadget("camera"));</pre>
Q5.	<p>Write a function to prepare array containing product names of each gadget along with its configuration order by product names in each category</p>
Q6.	<p>Write a function to update Certifications in following format</p> <p><b>Sample Output:</b></p> <pre>[   { 'index':0, 'certification': 'AMAZON Solution Architects'},   { 'index':1, 'certification': 'AZURE Cloud Developer'},   { 'index':2, 'certification': 'GOOGLE Cloud Developer'} ]</pre>
Q7.	<p>Write a function to print which smartwatch has maximum number of apps</p>
Q8.	<p>Write a function to print which camera has maximum storage space.</p>
Q9.	<p>Write a function to print which Laptop has less Storage Capacity.</p>
Q10.	<p>Define a function to filter laptops by name of processor</p> <p><b>Sample Snippet</b></p> <pre>let filterByProcessorName = (userGadgetName) =&gt; {   }   console.log("delete gadget = " + filterByProcessorName ("I5 Intel"));</pre>