Question 1: Differentiate between var and let and const keyword in javascript with example. (3)

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| The scope of a var variable is functional scope. | The scope of a let variable is block scope. | The scope of a const variable is block scope. |
| It can be updated and re-declared into the scope. | It can be updated but cannot be re-declared into the scope. | It cannot be updated or re-declared into the scope. |
| It can be declared without initialization. | It can be declared without initialization. | It cannot be declared without initialization. |
| It can be accessed without initialization as its default value is “undefined”. | It cannot be accessed without initialization otherwise it will give ‘referenceError’. | It cannot be accessed without initialization, as it cannot be declared without initialization. |
| hoisting done , with initializing as ‘default’ value | Hoisting is done , but not initialized (this is the reason for error when we access the let variable before declaration/initialization | Hoisting is done, but not initialized (this is the reason for error when we access the const variable before declaration/initialization |

Question 2: Write a simple JavaScript program to convert the below string into an array of colors. (2)

myColor = "Red Green White Black”;

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| let arr=color.split(" ") |

Question 3: (5)

5- Display only unique values from below array on console

Arr= [‘a’, ‘b’, ‘c’, ‘d, e, f’, ‘a, b, c’ ] Output: a,b,c,d,e,f

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| let arr2=[]  for(i of arr)  {  arr2.push(...(i.split(',')))  }  a=[... new Set(arr2)] |

Question 4: var library = [ (5)

{ author: 'Bill Gates', title: 'The Road Ahead', libraryID: 1253, price=20},

{ author: 'Bill Gates', title: 'The Road Ahead v2', libraryID: 1254, price=30},

{ author: 'Steve Jobs', title: 'Walter Isaacson', libraryID: 4264,price= 40},

{ author: 'Suzanne Collins', title: 'Mockingjay: The Final Book of The Hunger Games', libraryID: 3245, price=40}

];

Write a JavaScript function to filter the following array of objects by author value. And display the total price of all books of that author.

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| function filter\_books(t)  {  let sum=library.filter((obj)=>{return obj.author==t}).reduce((prev,curr)=>{return prev.price+curr.price})  return sum;  } |