QUIZ- 1(CLO 2)

Registration # _____ Name: _____ Date: 30/09/2022

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

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";

```
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

```
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}

  ];

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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.

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