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CAP757 – WEB DEVELOPMENT LABORATORY

CONTINUOUS ASSESSMENT-3

Submitted By:

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Q1:

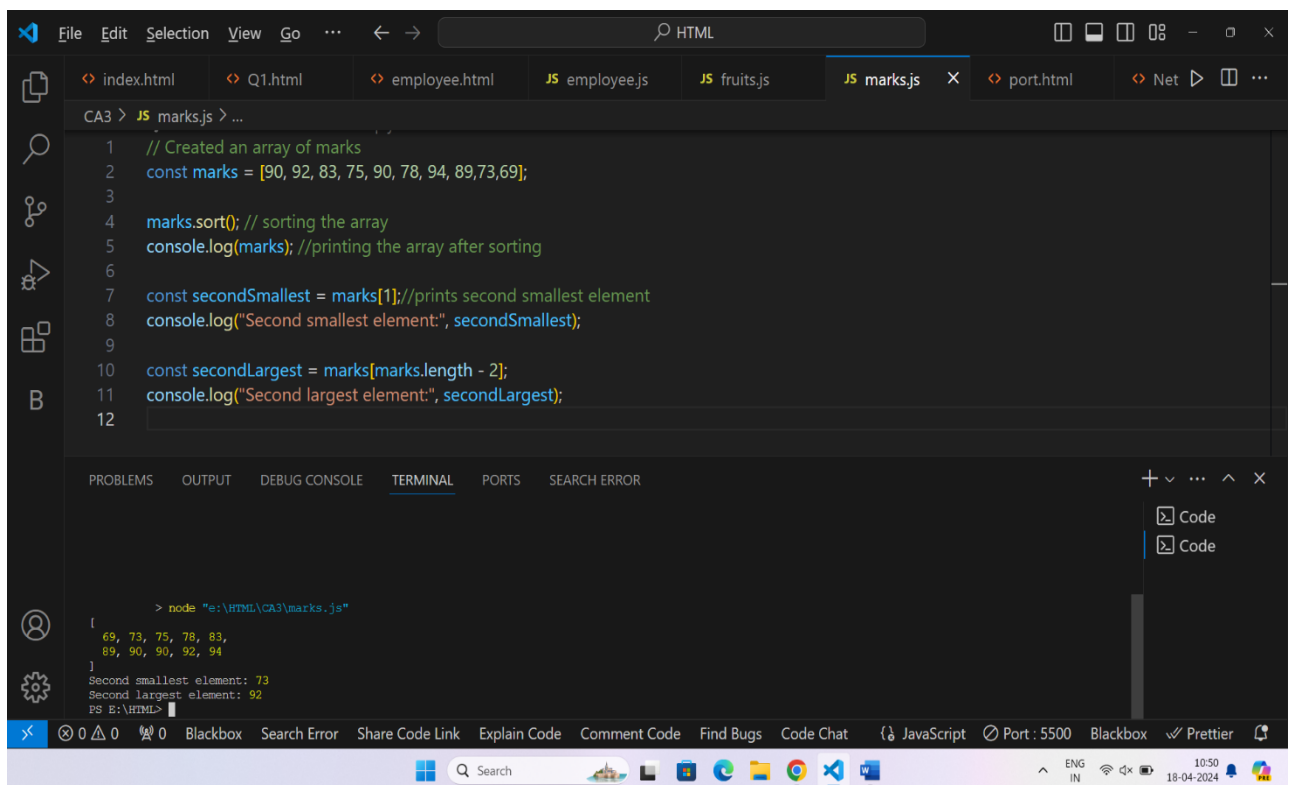
//CODE:

```
// Created an array of marks
const marks = [90, 92, 83, 75, 90, 78, 94, 89,73,69];

marks.sort(); // sorting the array
console.log(marks); //printing the array after sorting

const secondSmallest = marks[1]; //prints second smallest element
console.log("Second smallest element:", secondSmallest);

const secondLargest = marks[marks.length - 2];
console.log("Second largest element:", secondLargest);
```



The screenshot shows the Visual Studio Code editor with the file 'marks.js' open. The code is identical to the one in the previous block. The terminal at the bottom shows the command `node "e:\HTML\CA3\marks.js"` being executed, resulting in the following output:

```
[
  69, 73, 75, 78, 83,
  89, 90, 90, 92, 94
]
Second smallest element: 73
Second largest element: 92
PS E:\HTML>
```

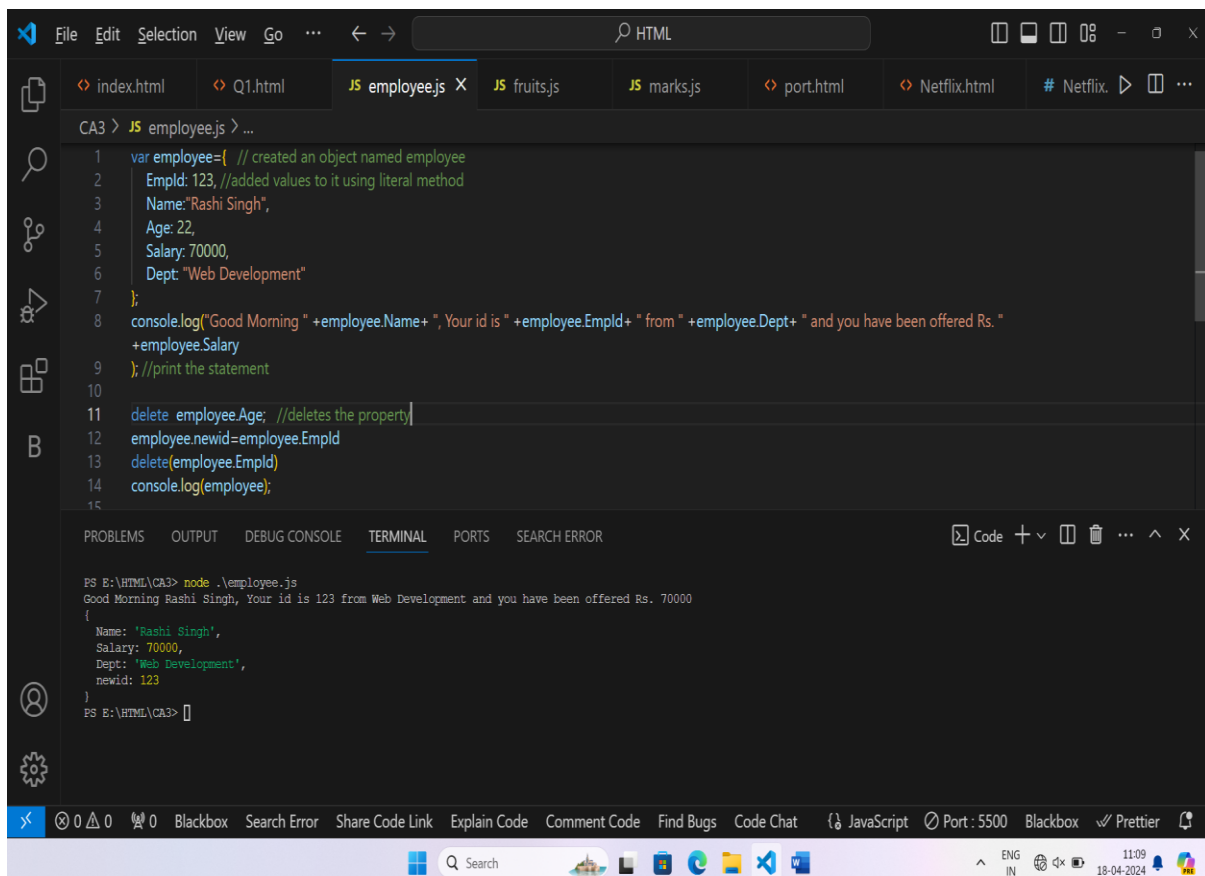
The status bar at the bottom indicates the file is 'JavaScript', the port is '5500', and the 'Prettier' extension is active. The system tray shows the time as 10:50 on 18-04-2024.

Q2.

//CODE:

```
var employee={ // created an object named employee
  EmpId: 123, //added values to it using literal method
  Name:"Rashi Singh",
  Age: 22,
  Salary: 70000,
  Dept: "Web Development"
};
console.log("Good Morning " +employee.Name+ ", Your id is " +employee.EmpId+ " from "
+employee.Dept+ " and you have been offered Rs. " +employee.Salary
); //print the statement

delete employee.Age; //deletes the property
employee.newid=employee.EmpId
delete(employee.EmpId)
console.log(employee);
```



The screenshot shows a Visual Studio Code editor window with a dark theme. The editor has several tabs open: index.html, Q1.html, JS employee.js (active), JS fruits.js, JS marks.js, port.html, NetfliX.html, and # NetfliX. The active file, JS employee.js, contains the following code:

```
1 var employee={ // created an object named employee
2   EmpId: 123, //added values to it using literal method
3   Name:"Rashi Singh",
4   Age: 22,
5   Salary: 70000,
6   Dept: "Web Development"
7 };
8 console.log("Good Morning " +employee.Name+ ", Your id is " +employee.EmpId+ " from " +employee.Dept+ " and you have been offered Rs. "
9 +employee.Salary
10 ); //print the statement
11 delete employee.Age; //deletes the property
12 employee.newid=employee.EmpId
13 delete(employee.EmpId)
14 console.log(employee);
```

Below the editor, the TERMINAL panel is open, showing the output of running the command `node .\employee.js` in the directory `PS E:\HTML\CA3>`. The output is:

```
Good Morning Rashi Singh, Your id is 123 from Web Development and you have been offered Rs. 70000
{
  Name: 'Rashi Singh',
  Salary: 70000,
  Dept: 'Web Development',
  newid: 123
}
```

The terminal prompt is `PS E:\HTML\CA3>`. The status bar at the bottom shows the file encoding as UTF-8, the format as Prettier, and the port as 5500. The system tray at the bottom right shows the date and time as 18-04-2024, 11:09.

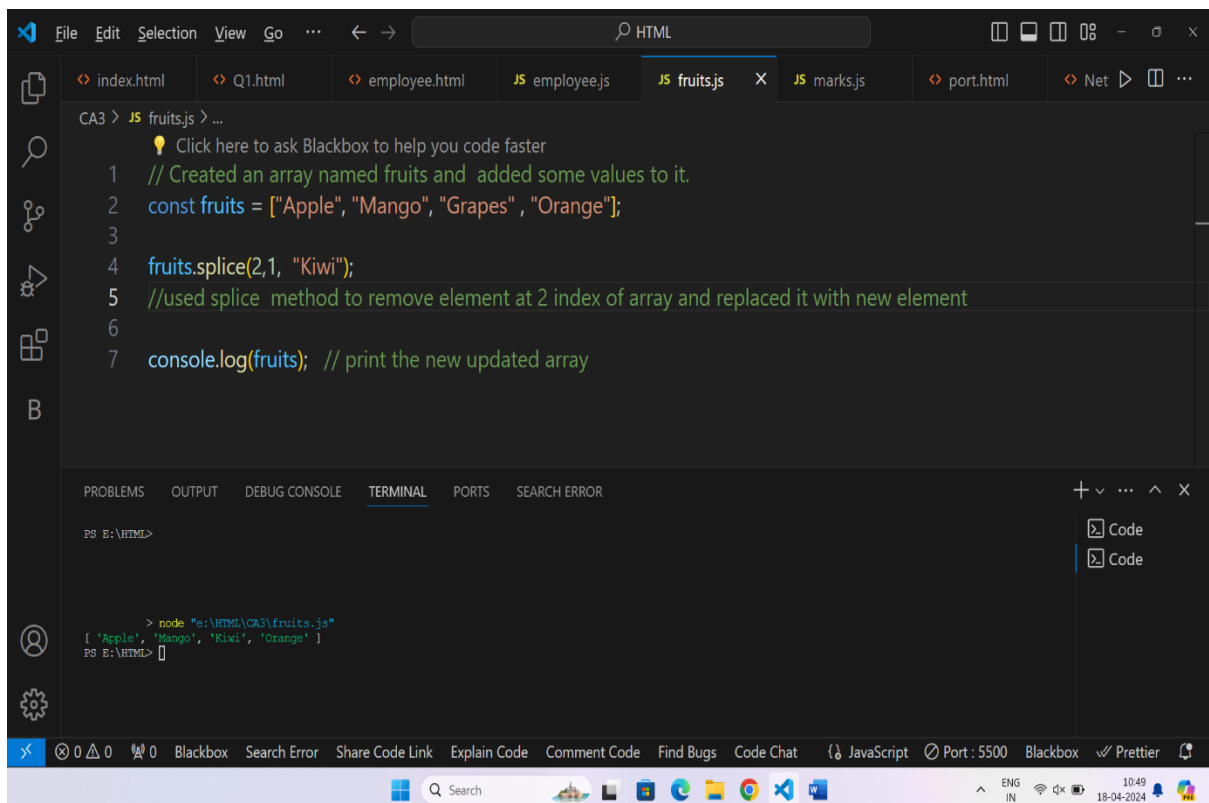
Q3.

//CODE:

```
// Created an array named fruits and added some values to it.
const fruits = ["Apple", "Mango", "Grapes", "Orange"];

fruits.splice(2,1, "Kiwi");
//used splice method to remove element at 2 index of array and replaced
it with new element

console.log(fruits); // print the new updated array
```



The screenshot shows the Visual Studio Code interface. The editor window displays the file `fruits.js` with the following code:

```
1 // Created an array named fruits and added some values to it.
2 const fruits = ["Apple", "Mango", "Grapes", "Orange"];
3
4 fruits.splice(2,1, "Kiwi");
5 //used splice method to remove element at 2 index of array and replaced
6 it with new element
7 console.log(fruits); // print the new updated array
```

The terminal at the bottom shows the command `node "e:\HTML\CA3\fruits.js"` being executed, resulting in the output:

```
[ 'Apple', 'Mango', 'Kiwi', 'Orange' ]
```

The status bar at the bottom indicates the file is a JavaScript file, the port is 5500, and the Prettier extension is active.