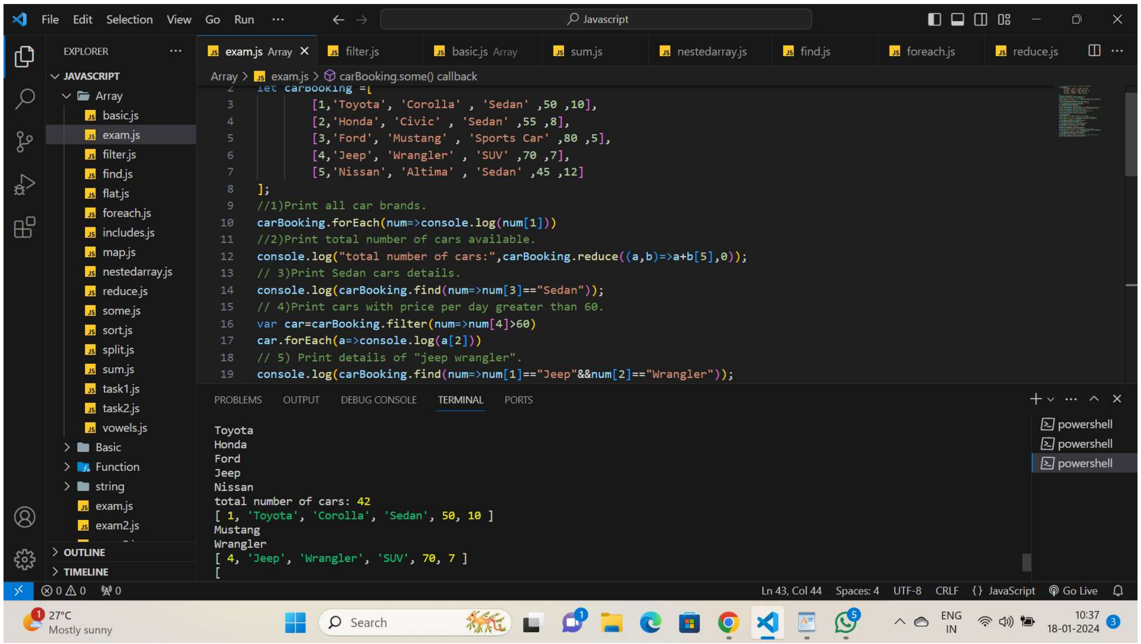
JavaScript Array Method Exam

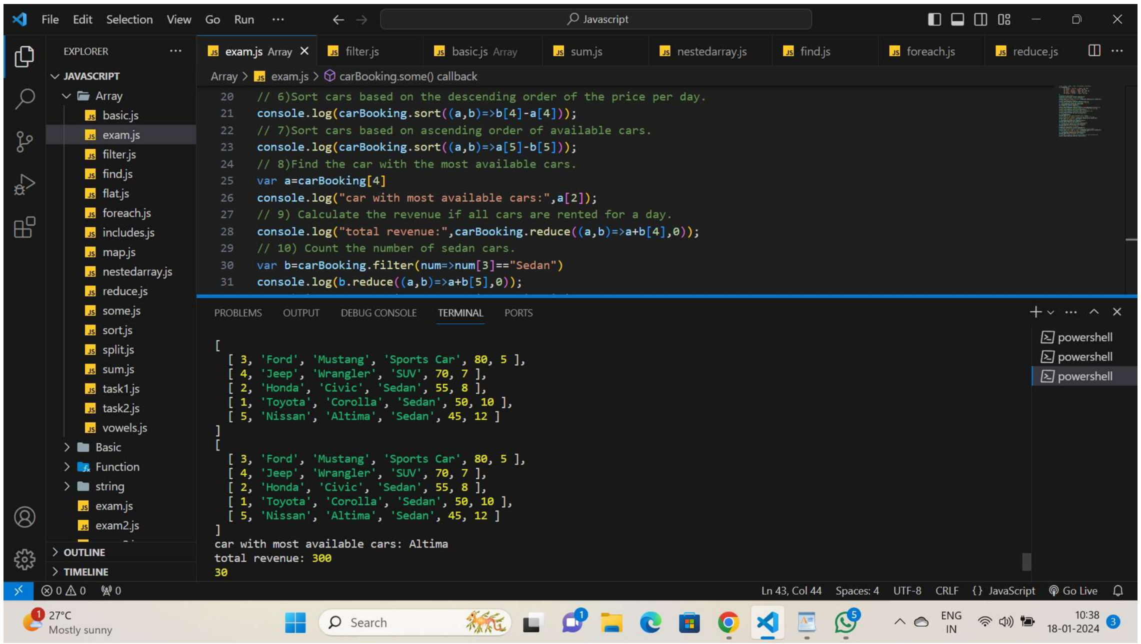
Name : Anand R K
Batch:MEARN NOV 23 B1
Mode Of Exam : (online/offline)

1 Car Booking Data
[id , brand , model , type , pricePerDay, available]
Let carBooking =[
        [1,’Toyota’, ‘Corolla’ , ‘Sedan’ ,50 ,10],
        [2,’Honda’, ‘Civic’ , ‘Sedan’ ,55 ,8],
        [3,’Ford’, ‘Mustang’ , ‘Sports Car’ ,80 ,5],
        [4,’Jeep’, ‘Wrangler’ , ‘SUV’ ,70 ,7],
        [5,’Nissan’, ‘Altima’ , ‘Sedan’ ,45 ,12]
];



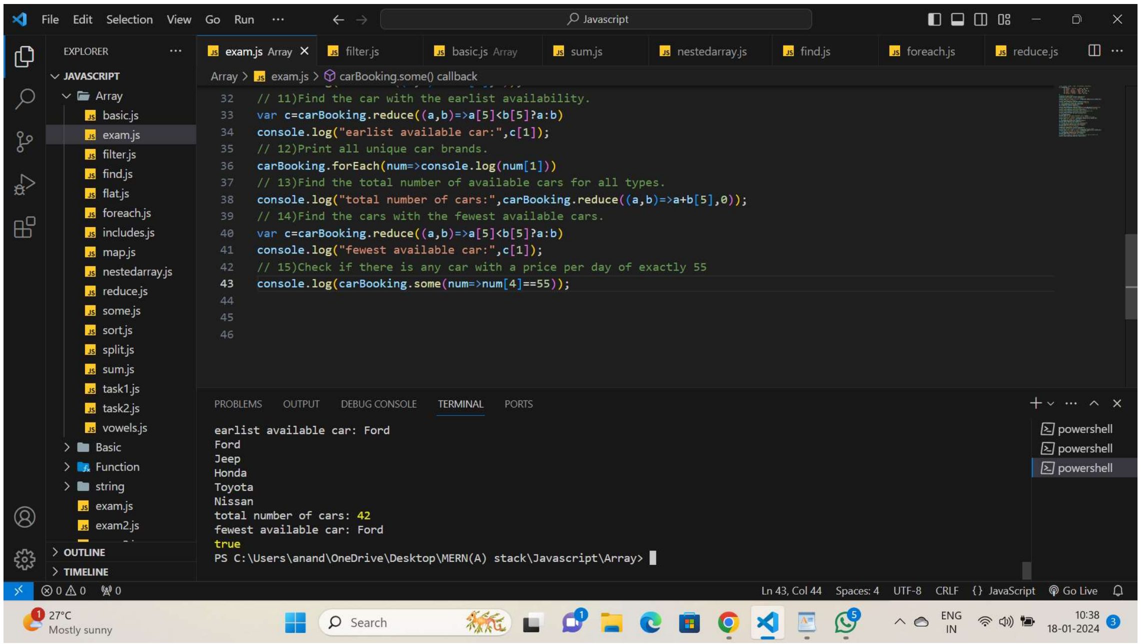
```javascript
let carBooking =[
            [1,'Toyota', 'Corolla' , 'Sedan' ,50 ,10],
            [2,'Honda', 'Civic' , 'Sedan' ,55 ,8],
            [3,'Ford', 'Mustang' , 'Sports Car' ,80 ,5],
            [4,'Jeep', 'Wrangler' , 'SUV' ,70 ,7],
            [5,'Nissan', 'Altima' , 'Sedan' ,45 ,12]
];
//1)Print all car brands.
carBooking.forEach(num=>console.log(num[1]))
//2)Print total number of cars available.
console.log("total number of cars:",carBooking.reduce((a,b)=>a+b[5],0));
// 3)Print Sedan cars details.
console.log(carBooking.find(num=>num[3]=="Sedan"));
// 4)Print cars with price per day greater than 60.
var car=carBooking.filter(num=>num[4]>60)
car.forEach(a=>console.log(a[2]))
// 5) Print details of "jeep wrangler".
console.log(carBooking.find(num=>num[1]=="Jeep"&&num[2]=="Wrangler"));
```

```
Toyota
Honda
Ford
Jeep
Nissan
total number of cars: 42
[ 1, 'Toyota', 'Corolla', 'Sedan', 50, 10 ]
Mustang
Wrangler
[ 4, 'Jeep', 'Wrangler', 'SUV', 70, 7 ]
[
```



```javascript
// 6)Sort cars based on the descending order of the price per day.
console.log(carBooking.sort((a,b)=>b[4]-a[4]));
// 7)Sort cars based on ascending order of available cars.
console.log(carBooking.sort((a,b)=>a[5]-b[5]));
// 8)Find the car with the most available cars.
var a=carBooking[4]
console.log("car with most available cars:",a[2]);
// 9) Calculate the revenue if all cars are rented for a day.
console.log("total revenue:",carBooking.reduce((a,b)=>a+b[4],0));
// 10) Count the number of sedan cars.
var b=carBooking.filter(num=>num[3]=="Sedan")
console.log(b.reduce((a,b)=>a+b[5],0));
```

```
[
  [ 3, 'Ford', 'Mustang', 'Sports Car', 80, 5 ],
  [ 4, 'Jeep', 'Wrangler', 'SUV', 70, 7 ],
  [ 2, 'Honda', 'Civic', 'Sedan', 55, 8 ],
  [ 1, 'Toyota', 'Corolla', 'Sedan', 50, 10 ],
  [ 5, 'Nissan', 'Altima', 'Sedan', 45, 12 ]
]
[
  [ 3, 'Ford', 'Mustang', 'Sports Car', 80, 5 ],
  [ 4, 'Jeep', 'Wrangler', 'SUV', 70, 7 ],
  [ 2, 'Honda', 'Civic', 'Sedan', 55, 8 ],
  [ 1, 'Toyota', 'Corolla', 'Sedan', 50, 10 ],
  [ 5, 'Nissan', 'Altima', 'Sedan', 45, 12 ]
]
car with most available cars: Altima
total revenue: 300
30
```


File Edit Selection View Go Run
Javascript
EXPLORER
JAVASCRIPT
Array
exam.js Array
Array > exam.js > carBooking.some() callback
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
powershell
powershell
Ln 43, Col 44 Spaces: 4 UTF-8 CRLF {} JavaScript Go Live
27°C
Mostly sunny
Search
ENG
IN
10:38
18-01-2024

```javascript
// 11)Find the car with the earlist availability.
var c=carBooking.reduce((a,b)=>a[5]<b[5]?a:b)
console.log("earlist available car:",c[1]);
// 12)Print all unique car brands.
carBooking.forEach(num=>console.log(num[1]))
// 13)Find the total number of available cars for all types.
console.log("total number of cars:",carBooking.reduce((a,b)=>a+b[5],0));
// 14)Find the cars with the fewest available cars.
var c=carBooking.reduce((a,b)=>a[5]<b[5]?a:b)
console.log("fewest available car:",c[1]);
// 15)Check if there is any car with a price per day of exactly 55
console.log(carBooking.some(num=>num[4]==55));
```

```
earlist available car: Ford
Ford
Jeep
Honda
Toyota
Nissan
total number of cars: 42
fewest available car: Ford
true
PS C:\Users\anand\OneDrive\Desktop\MERN(A) stack\Javascript\Array>
```