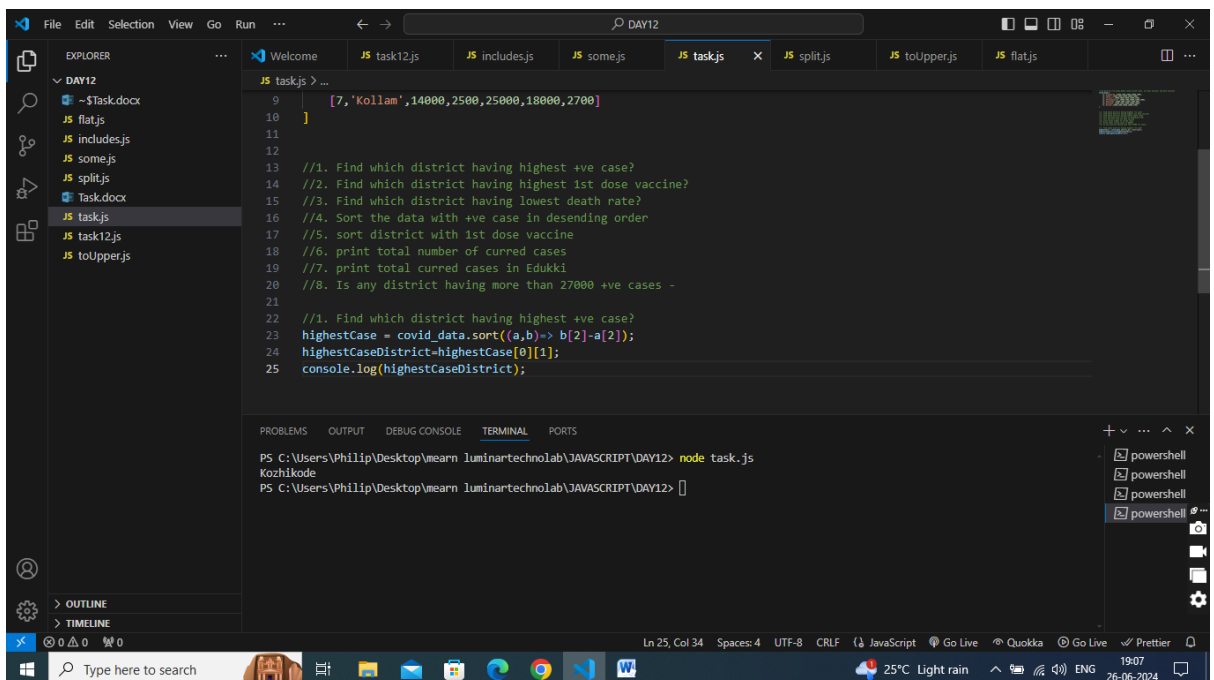


## TASK1

[no,district,+ve cases,death rates,currred rates, 1st dose vaccine, 2nd dose vaccine]

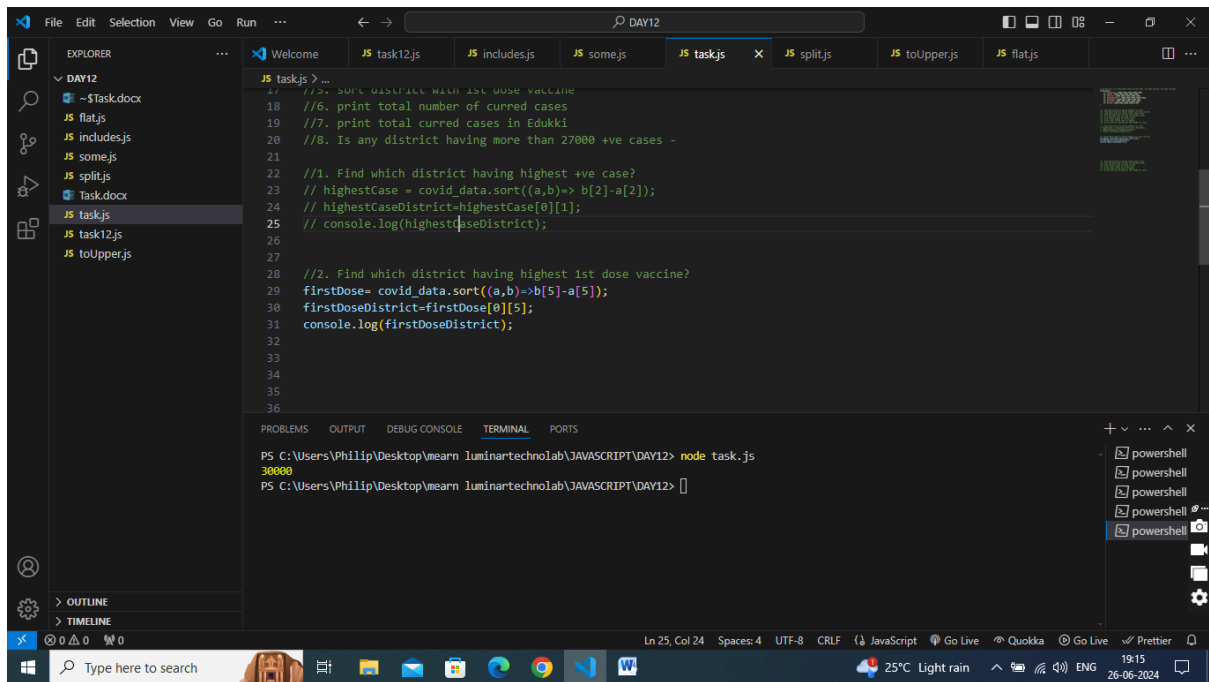
```
covid_data=[  
  
  [1,'Ernakulam',34000,2000,23000,20000,2000],  
  
  [2,'Idukki',14000,3000,25000,30000,1000],  
  
  [3,'Thrissur',24000,4000,33000,24000,2500],  
  
  [4,'Pathanamthitta',20000,2000,45000,22000,1500],  
  
  [5,'Kozhikode',44000,5000,12000,21000,500],  
  
  [6,'Kottayam',27000,1500,27000,14000,1000],  
  
  [7,'Kollam',14000,2500,25000,18000,2700]  
  
]
```

1. Find which district having highest +ve case?

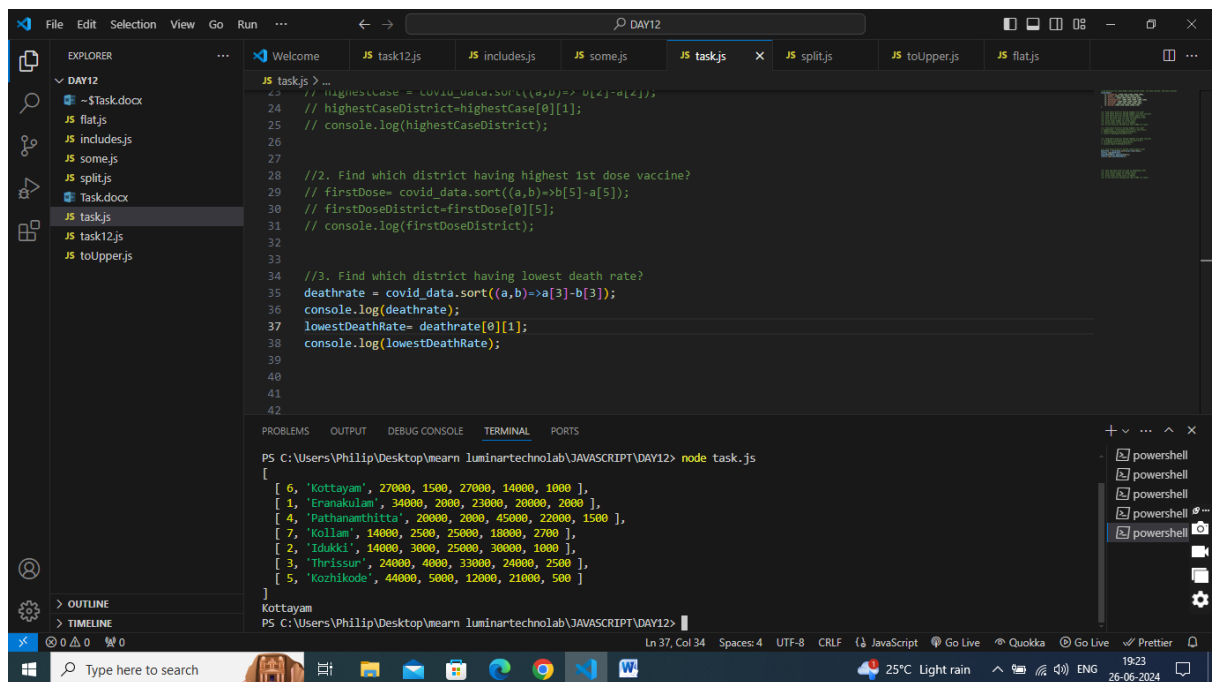


```
9  [7,'Kollam',14000,2500,25000,18000,2700]  
10 ]  
11  
12  
13 //1. Find which district having highest +ve case?  
14 //2. Find which district having highest 1st dose vaccine?  
15 //3. Find which district having lowest death rate?  
16 //4. Sort the data with +ve case in descending order  
17 //5. sort district with 1st dose vaccine  
18 //6. print total number of currred cases  
19 //7. print total currred cases in Edukki  
20 //8. Is any district having more than 27000 +ve cases -  
21  
22 //1. Find which district having highest +ve case?  
23 highestCase = covid_data.sort((a,b)-> b[2]-a[2]);  
24 highestCaseDistrict=highestCase[0][1];  
25 console.log(highestCaseDistrict);  
  
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS  
PS C:\Users\Philip\Desktop\mearn luminartechnolab\JAVASCRIPT\DAY12> node task.js  
Kozhikode  
PS C:\Users\Philip\Desktop\mearn luminartechnolab\JAVASCRIPT\DAY12> ]
```

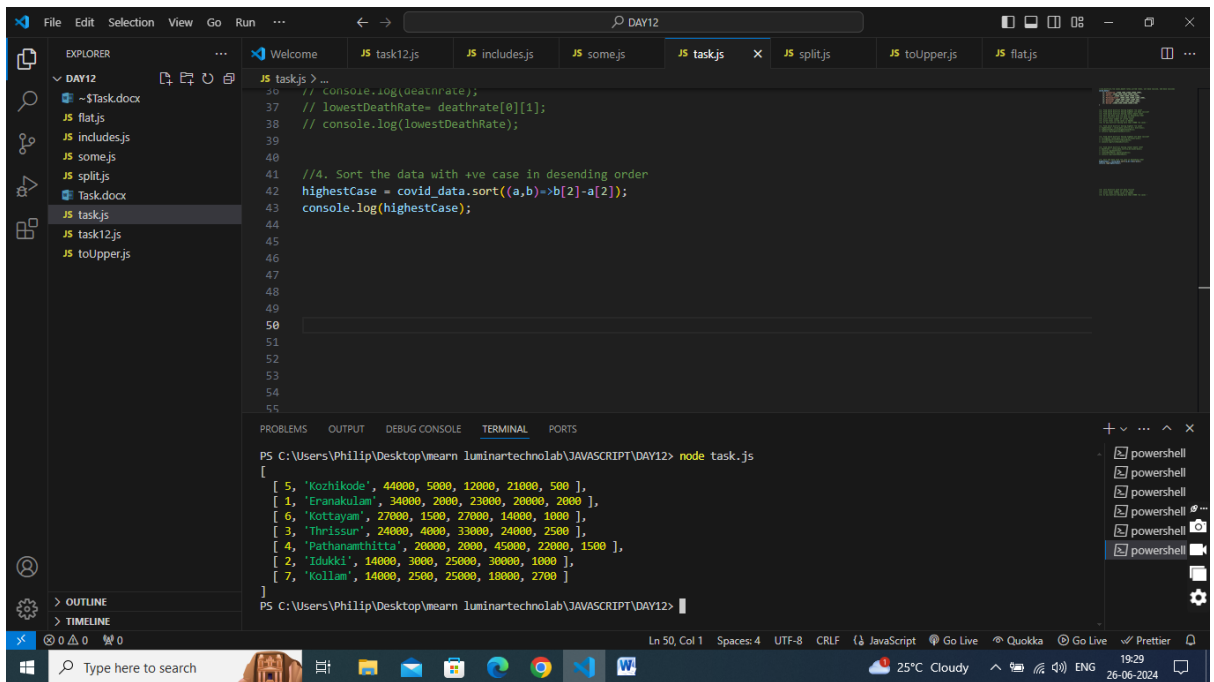
2. Find which district having highest 1st dose vaccine?



### 3. Find which district having lowest death rate?



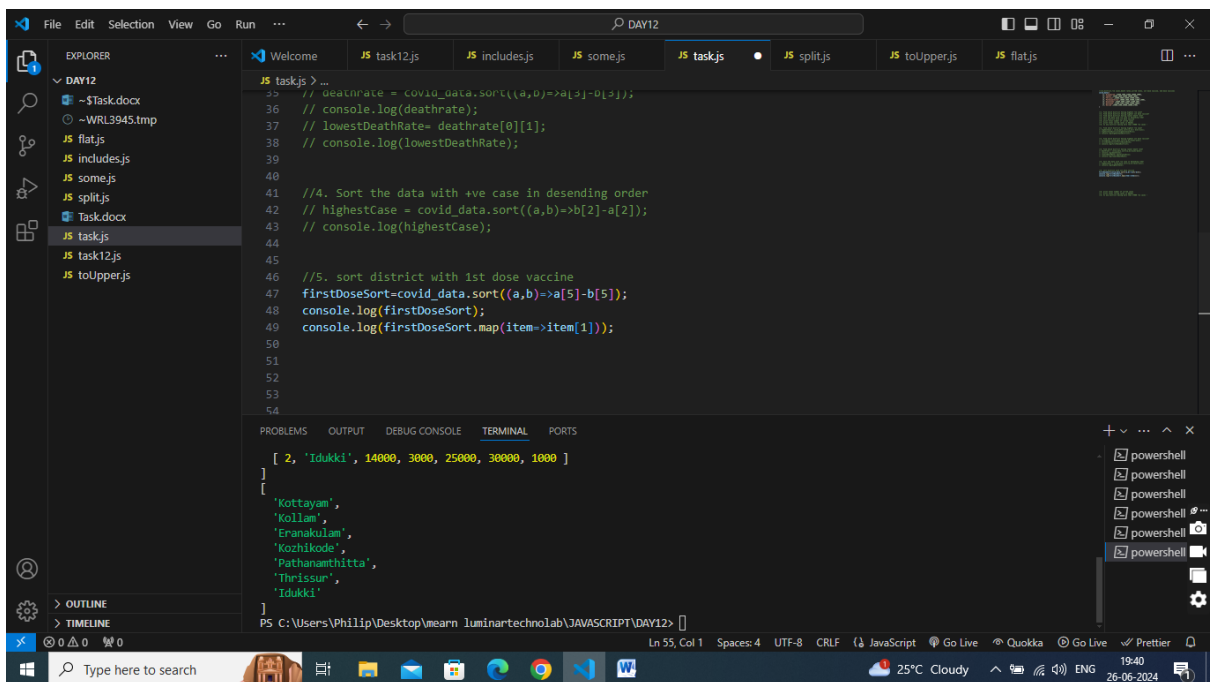
### 4. Sort the data with +ve case in descending order



```
36 // console.log(deathrate);
37 // lowestDeathRate= deathrate[0][1];
38 // console.log(lowestDeathRate);
39
40
41 //4. Sort the data with +ve case in descending order
42 highestCase = covid_data.sort((a,b)->b[2]-a[2]);
43 console.log(highestCase);
44
45
46
47
48
49
50
51
52
53
54
55
```

```
PS C:\Users\Philip\Desktop\learn_luminartechnolab\JAVASCRIPT\DAY12> node task.js
[
  [ 5, 'Kozhikode', 44000, 5000, 12000, 21000, 500 ],
  [ 1, 'Ernakulam', 34000, 2000, 23000, 20000, 2000 ],
  [ 6, 'Kottayam', 27000, 1500, 27000, 14000, 1000 ],
  [ 3, 'Thrissur', 24000, 4000, 33000, 24000, 2500 ],
  [ 4, 'Pathanamthitta', 20000, 2000, 45000, 22000, 1500 ],
  [ 2, 'Idukki', 14000, 3000, 25000, 30000, 1000 ],
  [ 7, 'Kollam', 14000, 2500, 25000, 18000, 2700 ]
]
```

## 5. sort district with 1st dose vaccine



```
36 // deathrate = covid_data.sort((a,b)->a[2]-b[2]);
37 // console.log(deathrate);
38 // lowestDeathRate= deathrate[0][1];
39 // console.log(lowestDeathRate);
40
41 //4. Sort the data with +ve case in descending order
42 // highestCase = covid_data.sort((a,b)->b[2]-a[2]);
43 // console.log(highestCase);
44
45
46 //5. sort district with 1st dose vaccine
47 firstDoseSort=covid_data.sort((a,b)->a[5]-b[5]);
48 console.log(firstDoseSort);
49 console.log(firstDoseSort.map(item=>item[1]));
50
51
52
53
54
```

```
PS C:\Users\Philip\Desktop\learn_luminartechnolab\JAVASCRIPT\DAY12>
[
  [ 2, 'Idukki', 14000, 3000, 25000, 30000, 1000 ]
]
[
  'Kottayam',
  'Kollam',
  'Ernakulam',
  'Kozhikode',
  'Pathanamthitta',
  'Thrissur',
  'Idukki'
]
```

## 6. print total number of curred cases

```
45
46 //5. sort district with 1st dose vaccine
47 // firstDoseSort=covid_data.sort((a,b)->a[5]-b[5]);
48 // console.log(firstDoseSort);
49 // console.log(firstDoseSort.map(item->item[1]));
50
51
52 //6. print total number of currend cases
53 console.log(covid_data.reduce((sum,item)->sum+item[4],0));
54
55
56
57
58
59
60
61
62
63
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Philip\Desktop\mearn luminartechnolab\JAVASCRIPT\DAY12> node task.js  
190000  
PS C:\Users\Philip\Desktop\mearn luminartechnolab\JAVASCRIPT\DAY12>

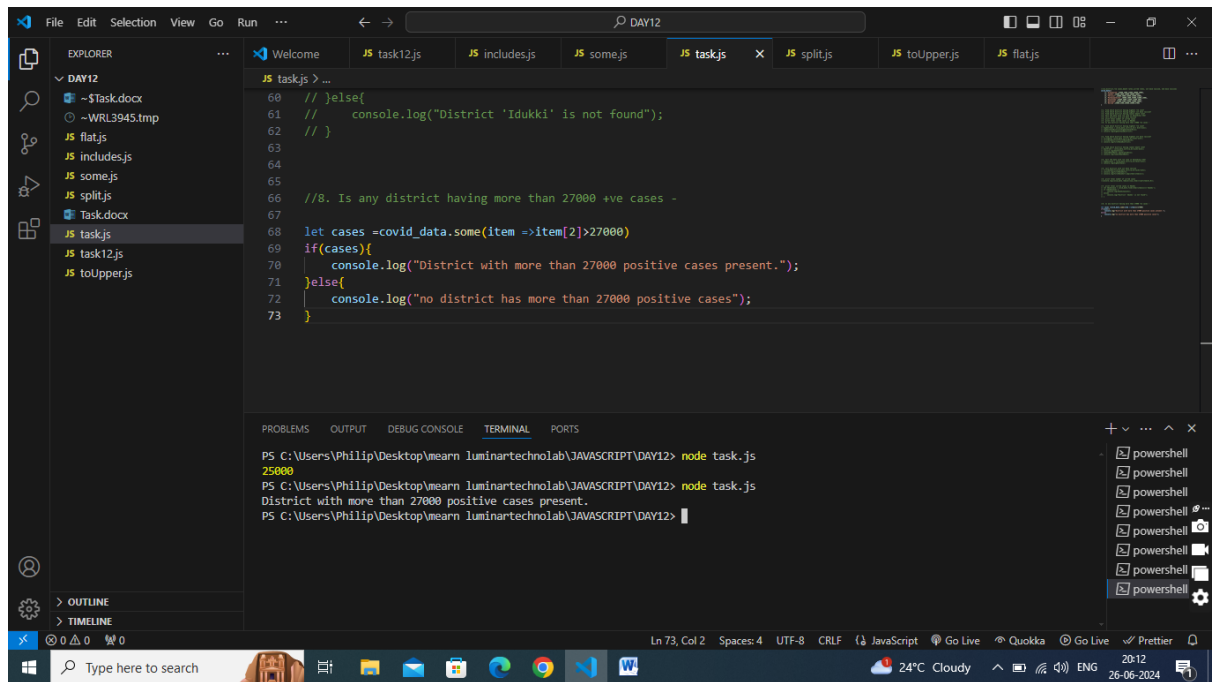
7. print total currend cases in Edukki

```
46 //5. sort district with 1st dose vaccine
47 // firstDoseSort=covid_data.sort((a,b)->a[5]-b[5]);
48 // console.log(firstDoseSort);
49 // console.log(firstDoseSort.map(item->item[1]));
50
51
52 //6. print total number of currend cases
53 //console.log(covid_data.reduce((sum,item)->sum+item[4],0));
54
55
56 //7. print total currend cases in Edukki
57 let Idukkicase = covid_data.find(item->item[1]==='Idukk1');
58 if (Idukkicase) {
59   console.log(Idukkicase[4]);
60 }else{
61   console.log("District 'Idukk1' is not found");
62 }
63
64
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Philip\Desktop\mearn luminartechnolab\JAVASCRIPT\DAY12> node task.js  
25000  
PS C:\Users\Philip\Desktop\mearn luminartechnolab\JAVASCRIPT\DAY12>

8. Is any district having more than 27000 +ve cases –



## TASK2

```
//[id,name,price,stock]
products=[
[1,'Hide and seek',50,20],
[2,'lays',20,80],
[3,'oreo',40,100],
[4,'parleG',25,10],
[5,'tiger',20,0],
[6,'unibic',60,20],
[7,'good day',70,20]
]
```

1. Display all products name

```
1 // [id, name, price, stock]
2 products = [
3   [1, 'Hide and seek', 50, 20],
4   [2, 'lays', 20, 80],
5   [3, 'oreo', 40, 100],
6   [4, 'parleG', 25, 10],
7   [5, 'tiger', 20, 0],
8   [6, 'unibic', 60, 20],
9   [7, 'good day', 70, 20]
10 ]
11
12 //1. Display all products name
13 console.log(products.map((item) => item[1]));
14
15
16
17 //2. Display list of products under 50rs
18 //3. Print details of 'oreo' product
19 //4. Display most costly product details
```

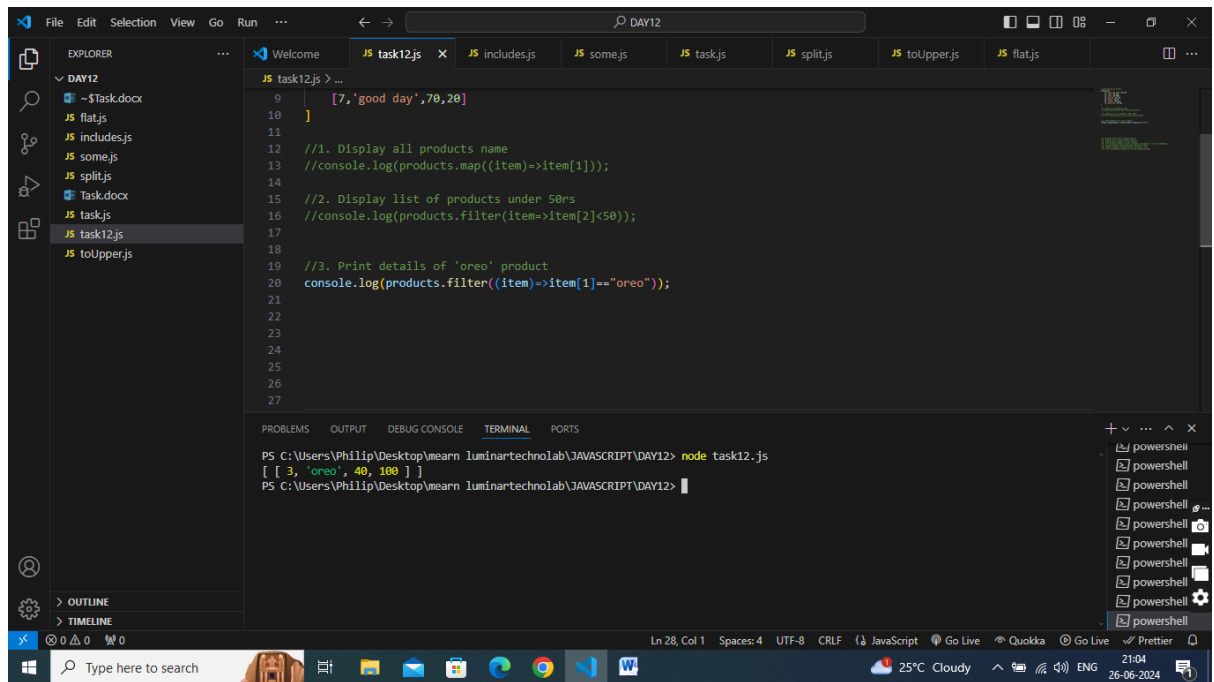
```
PS C:\Users\Philip\Desktop\mearn luminartechlab\JAVASCRIPT\DAY12> node task12.js
[
  'Hide and seek',
  'lays',
  'oreo',
  'parleG',
  'tiger',
  'unibic',
  'good day'
]
```

## 2. Display list of products under 50rs

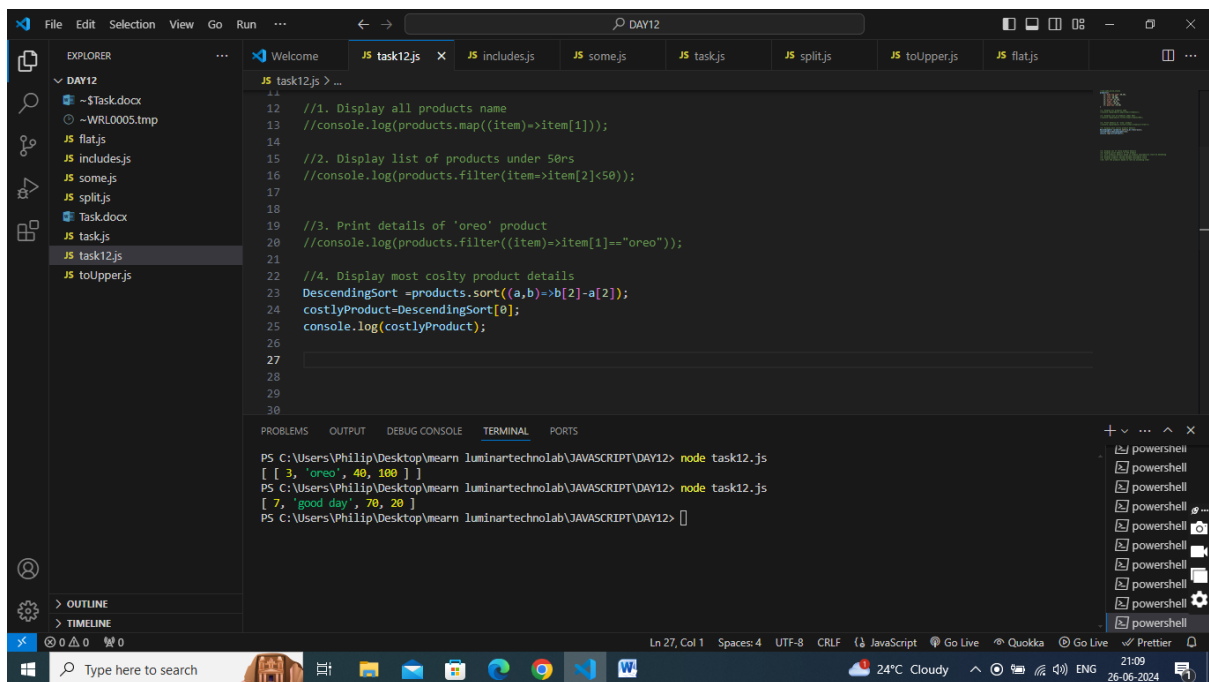
```
4 [2, 'lays', 20, 80],
5 [3, 'oreo', 40, 100],
6 [4, 'parleG', 25, 10],
7 [5, 'tiger', 20, 0],
8 [6, 'unibic', 60, 20],
9 [7, 'good day', 70, 20]
10 ]
11
12 //1. Display all products name
13 //console.log(products.map((item) => item[1]));
14
15 //2. Display list of products under 50rs
16 console.log(products.filter(item => item[2] < 50));
17
18
19
20 //3. Print details of 'oreo' product
21 //4. Display most costly product details
22 //5. Display out of stock product details
```

```
PS C:\Users\Philip\Desktop\mearn luminartechlab\JAVASCRIPT\DAY12> node task12.js
[
  [ 3, 'oreo', 40, 100 ],
  [ 4, 'parleG', 25, 10 ],
  [ 5, 'tiger', 20, 0 ]
]
```

## 3. Print details of 'oreo' product



#### 4. Display most costly product details



#### 5. Display out of stock product details

```
18
19 //3. Print details of 'oreo' product
20 //console.log(products.filter((item)=>item[1]== "oreo"));
21
22 //4. Display most costly product details
23 //DescendingSort =products.sort((a,b)=>b[2]-a[2]);
24 //costlyProduct=DescendingSort[0];
25 //console.log(costlyProduct);
26
27 //5. Display out of stock product details
28 OutofStock=products.filter((item)=>item[3]==0)
29 console.log(OutofStock);
30
31
32
33
34
35
36
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Phillip\Desktop\mearn luminartechonlab\JAVASCRIPT\DAY12> node task12.js
[ [ 5, 'tiger', 20, 0 ] ]
PS C:\Users\Phillip\Desktop\mearn luminartechonlab\JAVASCRIPT\DAY12>
```

6. Display print details of 4th product

```
25 //console.log(costlyProduct);
26
27 //5. Display out of stock product details
28 //OutofStock=products.filter((item)=>item[3]==0)
29 //console.log(OutofStock);
30
31
32 //6. Display print details of 4th product
33 fourthitems=products.filter((item)=>item[0]==4)
34 console.log(fourthitems);
35
36
37
38
39
40
41
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Phillip\Desktop\mearn luminartechonlab\JAVASCRIPT\DAY12> node task12.js
[ [ 5, 'tiger', 20, 0 ] ]
PS C:\Users\Phillip\Desktop\mearn luminartechonlab\JAVASCRIPT\DAY12> node task12.js
[ [ 4, 'parleq', 25, 10 ] ]
PS C:\Users\Phillip\Desktop\mearn luminartechonlab\JAVASCRIPT\DAY12>
```

7. sort products details based on product availability stock by desending



```
File Edit Selection View Go Run ... DAY12
EXPLORER
  DAY12
    ~$Task.docx
    ~$WRL0005.tmp
    JS flat.js
    JS includes.js
    JS some.js
    JS split.js
    Task.docx
    JS task.js
    JS task12.js
    JS toUpper.js

JS task12.js > ...
24 //costlyProduct=DescendingSort[0];
25 //console.log(costlyProduct);
26
27 //5. Display out of stock product details
28 //OutOfStock=products.filter((item)->item[3]==0)
29 //console.log(OutOfStock);
30
31
32 //6. Display print details of 4th product
33 //fourthItems=products.filter((item)->item[0]==4)
34 //console.log(fourthItems);
35
36 //7. sort products details based on product availability stock by desending
37 AvailableProducts= products.sort((a,b)->b[3]-a[3]);
38 console.log(AvailableProducts);
39
40

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Philip\Desktop\mearn luminartecholab\JAVASCRIPT\DAY12> node task12.js
[
  [ 3, 'oreo', 40, 100 ],
  [ 2, 'lays', 20, 80 ],
  [ 1, 'hide and seek', 50, 20 ],
  [ 6, 'unibic', 60, 20 ],
  [ 7, 'good day', 70, 20 ],
  [ 4, 'parle', 25, 10 ],
  [ 5, 'tigen', 20, 0 ]
]
PS C:\Users\Philip\Desktop\mearn luminartecholab\JAVASCRIPT\DAY12>
```

## 8. Display products having maximum available stock

```
File Edit Selection View Go Run ... DAY12
EXPLORER
  DAY12
    ~$Task.docx
    ~$WRL0005.tmp
    JS flat.js
    JS includes.js
    JS some.js
    JS split.js
    Task.docx
    JS task.js
    JS task12.js
    JS toUpper.js

JS task12.js > ...
30
31
32 //6. Display print details of 4th product
33 //fourthItems=products.filter((item)->item[0]==4)
34 //console.log(fourthItems);
35
36 //7. sort products details based on product availability stock by desending
37 //AvailableProducts= products.sort((a,b)->b[3]-a[3]);
38 //console.log(AvailableProducts);
39
40 //8. Display products having maximum available stock
41 AvailableProducts= products.sort((a,b)->b[3]-a[3]);
42 MaxAvailableStock=AvailableProducts[0]
43 console.log(MaxAvailableStock);
44
45
46

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Philip\Desktop\mearn luminartecholab\JAVASCRIPT\DAY12> node task12.js
[ 3, 'oreo', 40, 100 ]
PS C:\Users\Philip\Desktop\mearn luminartecholab\JAVASCRIPT\DAY12>
```

## 9. Display products having minimum available stock

```
File Edit Selection View Go Run ... DAY12
EXPLORER
  DAY12
    ~$Task.docx
    ~$WRL0005.tmp
    JS flat.js
    JS includes.js
    JS some.js
    JS split.js
    Task.docx
    JS task.js
    JS task12.js
    JS toUpper.js
  Welcome JS task12.js JS includes.js JS some.js JS task.js JS split.js JS toUpper.js JS flat.js
JS task12.js > ...
35
36 //7. sort products details based on product availability stock by descending
37 //AvailableProducts= products.sort((a,b)=>b[3]-a[3]);
38 //console.log(AvailableProducts);
39
40 //8. Display products having maximum available stock
41 // AvailableProducts= products.sort((a,b)=>b[3]-a[3]);
42 // MaxAvailableStock=AvailableProducts[0]
43 // console.log(MaxAvailableStock);
44
45
46 //9. Display products having minimum available stock
47 AvailableProducts= products.sort((a,b)=>b[3]-a[3]);
48 MinAvailableStock=AvailableProducts[6]
49 console.log(MinAvailableStock);
50
51
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Philip\Desktop\mearn luminartechlab\JAVASCRIPT\DAY12> node task12.js
[ 3, 'oreo', 40, 100 ]
PS C:\Users\Philip\Desktop\mearn luminartechlab\JAVASCRIPT\DAY12> node task12.js
[ 5, 'tiger', 20, 0 ]
PS C:\Users\Philip\Desktop\mearn luminartechlab\JAVASCRIPT\DAY12> 
```

## 10. Sort the products based on rate by ascending order

```
File Edit Selection View Go Run ... DAY12
EXPLORER
  DAY12
    ~$Task.docx
    ~$WRL0005.tmp
    JS flat.js
    JS includes.js
    JS some.js
    JS split.js
    Task.docx
    JS task.js
    JS task12.js
    JS toUpper.js
  Welcome JS task12.js JS includes.js JS some.js JS task.js JS split.js JS toUpper.js JS flat.js
JS task12.js > ...
41 // AvailableProducts= products.sort((a,b)=>b[3]-a[3]);
42 // MaxAvailableStock=AvailableProducts[0]
43 // console.log(MaxAvailableStock);
44
45
46 //9. Display products having minimum available stock
47 //AvailableProducts= products.sort((a,b)=>b[3]-a[3]);
48 //MinAvailableStock=AvailableProducts[6]
49 //console.log(MinAvailableStock);
50
51
52
53 //10. Sort the products based on rate by ascending order
54 PriceAscending = products.sort((a,b)=>a[2]-b[2]);
55 console.log(PriceAscending);
56
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Philip\Desktop\mearn luminartechlab\JAVASCRIPT\DAY12> node task12.js
[
  [ 2, 'lays', 20, 80 ],
  [ 5, 'tiger', 20, 0 ],
  [ 4, 'panko', 25, 10 ],
  [ 3, 'oreo', 40, 100 ],
  [ 1, 'hide and seek', 50, 20 ],
  [ 6, 'unibic', 60, 20 ],
  [ 7, 'good day', 70, 20 ]
]
PS C:\Users\Philip\Desktop\mearn luminartechlab\JAVASCRIPT\DAY12> 
```