

```
day3 > practice > JS task5.js > ...
1 // task1
2
3 for(let i =0;i<10;i++){
4   console.log(i)
5 }
6
7 // task2,3
8
9 // let even = []
10 // let odd = []
11 // for(let i =0;i<20;i++){
12 //   if((i)%2==0){
13 //     even.push(i)
14 //   }
15 //   else{
16 //     odd.push(i)
17 //   }
18 // }
19 // console.log(even)
20 // console.log(odd)
21
22 // task4
23
24 // let num = 5
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\karka\day3\practice> node task5

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```
day3 > practice > JS task5.js > ...
1 // task1
2
3 // for(let i =0;i<10;i++){
4 //   console.log(i)
5 // }
6
7 // task2,3
8
9 let even = []
10 let odd = []
11 for(let i =0;i<20;i++){
12   if((i)%2==0){
13     even.push(i)
14   }
15   else{
16     odd.push(i)
17   }
18 }
19 console.log(even)
20 console.log(odd)
21
22 // task4
23
24 // let num = 5
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\karka\day3\practice> node task5

[
 0, 2, 4, 6, 8,
 10, 12, 14, 16, 18
]
[
 1, 3, 5, 7, 9,
 11, 13, 15, 17, 19
]
PS D:\karka\day3\practice>

The screenshot shows the VS Code editor with the file explorer on the left. The file explorer shows a project named 'KARKA' with a folder 'day3' containing a subfolder 'practice'. Inside 'practice', there are files 'array.js', 'index.js', 'task.js', 'task2.js', 'task3.js', 'task4.js', and 'task5.js'. The 'task5.js' file is selected and open in the editor. The code in 'task5.js' is as follows:

```
14 // }
15 //   else{
16 //       odd.push(i)
17 //   }
18 // }
19 // console.log(even)
20 // console.log(odd)
21
22 // task4
23
24 let num = 5
25 let factorial = 1
26 for(let i = 1; i <= num; i++) {
27     factorial = factorial * i
28 }
29 console.log(factorial)
30
31
32 // task5
33 // let sum=0
34 // for(let i =1;i<=100;i++){
35 //     sum = sum+i
36 // }
37 // console.log(sum)
```

The terminal at the bottom shows the output of running 'node task5' in the PowerShell prompt:

```
PS D:\karka\day3\practice> node task5
[
  0, 2, 4, 6, 8,
  10, 12, 14, 16, 18
]
[
  1, 3, 5, 7, 9,
  11, 13, 15, 17, 19
]
]
PS D:\karka\day3\practice> node task5
120
PS D:\karka\day3\practice>
```

The screenshot shows the VS Code editor with the file explorer on the left. The file explorer shows a project named 'KARKA' with a folder 'day3' containing a subfolder 'practice'. Inside 'practice', there are files 'array.js', 'index.js', 'task.js', 'task2.js', 'task3.js', 'task4.js', and 'task5.js'. The 'task5.js' file is selected and open in the editor. The code in 'task5.js' is as follows:

```
21
22 // task4
23
24 // let num = 5
25 // let factorial = 1
26 // for(let i = 1; i <= num; i++) {
27 //     factorial = factorial * i
28 // }
29 // console.log(factorial)
30
31
32 // task5
33
34 let sum=0
35 for(let i =1;i<=100;i++){
36     sum = sum+i
37 }
38 console.log(sum)
39
40 // task6
41 // let a=[10,20,30,40,50,60]
42 // let sum = 0
43 // for(let i = 0;i<a.length;i++){
44 //     sum = (sum+a[i])
```

The terminal at the bottom shows the output of running 'node task5' in the PowerShell prompt:

```
PS D:\karka\day3\practice> node task5
10, 12, 14, 16, 18
]
[
  1, 3, 5, 7, 9,
  11, 13, 15, 17, 19
]
]
PS D:\karka\day3\practice> node task5
120
PS D:\karka\day3\practice> node task5
5050
PS D:\karka\day3\practice>
```

The screenshot shows the VS Code editor with the file explorer on the left displaying a project structure under 'KARKA'. The file 'task5.js' is selected. The editor displays the following JavaScript code:

```
30
31
32 // task5
33
34 // let sum=0
35 // for(let i =1;i<=100;i++){
36 //     sum = sum+i
37 // }
38 // console.log(sum)
39
40 // task6
41 let a=[10,20,30,40,50,60]
42 let sum = 0
43 for(let i = 0;i<a.length;i++){
44     sum = (sum+a[i])
45 }
46 let average = sum/a.length
47 console.log(average)
48
49 // task7
50 // let num=5
51 // let num1=10
52
53 // for(i=0;i<num;i++){
```

The terminal at the bottom shows the output of running 'node task5' three times:

```
PS D:\karka\day3\practice> node task5
[
  1, 3, 5, 7, 9,
  11, 13, 15, 17, 19
]
PS D:\karka\day3\practice> node task5
120
5050
PS D:\karka\day3\practice> node task5
35
```

The screenshot shows the VS Code editor with the file explorer on the left displaying a project structure under 'KARKA'. The file 'task7.js' is selected. The editor displays the following JavaScript code:

```
39
40 // task6
41 // let a=[10,20,30,40,50,60]
42 // let sum = 0
43 // for(let i = 0;i<a.length;i++){
44 //     sum = (sum+a[i])
45 // }
46 // let average = sum/a.length
47 // console.log(average)
48
49 // task7
50 let num=5
51 let num1=10
52
53 for(i=0;i<num;i++){
54     row=""
55     for(j=0;j<num1;j++){
56         row+=" "
57     }
58     console.log(row)
59 }
60
61 // task8
62
```

The terminal at the bottom shows the output of running 'node task7' three times:

```
PS D:\karka\day3\practice> node task7
5050
PS D:\karka\day3\practice> node task7
35
PS D:\karka\day3\practice> node task7
*****
*****
*****
```

```
day3 > practice > JS task5.js > ...
52
53 // for(i=0;i<num;i++){
54 //   row=""
55 //   for(j=0;j<num1;j++){
56 //     row+=" "
57
58 //   }console.log(row)
59 // }
60
61 // task8
62
63 for(let i =0;i<5;i++){
64   console.log(i)
65 }
66
67 // task9
68
69 // for(let i =1;i<10;i++){
70 //   console.log(i)
71 // }
72
73
74 // task10
75
```


PS D:\karka\day3\practice> node task5

0
1
2
3
4

PS D:\karka\day3\practice>

```
day3 > practice > JS task5.js > ...
56 //   row+=" "
57
58 //   }console.log(row)
59 // }
60
61 // task8
62
63 // for(let i =0;i<5;i++){
64 //   console.log(i)
65 // }
66
67 // task9
68
69 for(let i =1;i<10;i++){
70   console.log(i)
71 }
72
73
74 // task10
75
76 // let a = [10, 20, 30, 40, 10];
77
78 // if (a[0] === a[a.length - 1]) {
79 //   console.log("true");
80 // }
81
```

PS D:\karka\day3\practice> node tasks

1
2
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4
5
6
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8
9

PS D:\karka\day3\practice>

The screenshot shows the VS Code editor with the file explorer on the left. The file explorer shows a project structure with folders 'KARKA', 'day1\practice', 'day2\practice', 'day3\practice', and 'day4'. The file 'task5.js' is selected in the 'day3\practice' folder. The editor displays the following JavaScript code:

```
day3 > practice > JS task5.js > ...
65 // }
66
67 // task9
68
69 // for(let i =1;i<10;i++){
70 //   console.log(i)
71 // }
72
73 // task10
74
75
76 let a = [10, 20, 30, 40, 10];
77
78 if (a[0] === a[a.length - 1]) {
79   console.log("true");
80 } else {
81   console.log("false");
82 }
83
84 // task11
85
86 // let a = [50,60,70,10,22,33]
87 // for(let i=0;i<a.length;i++){
```

The terminal at the bottom shows the command 'node task5' being executed, resulting in the output 'true'.

The screenshot shows the VS Code editor with the file explorer on the left. The file explorer shows a project structure with folders 'KARKA', 'day1\practice', 'day2\practice', 'day3\practice', and 'day4'. The file 'task5.js' is selected in the 'day3\practice' folder. The editor displays the following JavaScript code:

```
day3 > practice > JS task5.js > ...
78 // if (a[0] === a[a.length - 1]) {
79 //   console.log("true");
80 // } else {
81 //   console.log("false");
82 // }
83
84 // task11
85
86 // let a = [50,60,70,10,22,33]
87 let a = [50,60,70,10,22,33]
88 for(let i=0;i<a.length;i++){
89   if(a[i]%5==0){
90     console.log(a[i])
91   }
92 }
93
94 // task12
95
96 // let char = "a"
97 // if (char=="a,e,i,o,u"){
98 //   console.log("character is vowel")
99 // }
100 // }
```

The terminal at the bottom shows the command 'node task5' being executed, resulting in the output '50', '60', '70', and '10'.

```
day3 > practice > JS task5.js > [0] char
88 // for(let i=0;i<a.length;i++){
89 //   if(a[i]%5==0){
90 //     console.log(a[i])
91 //   }
92 // }
93 // }
94 // }
95 // }
96 // task12
97
98 let char = "b"
99 if (char=="a,e,i,o,u"){
100   console.log("character is vowel")
101 }
102 else{
103   console.log("character is not vowel")
104 }
105
106 // task13
107
108 // let even = []
109 // let odd = []
110 // for(let i=10;i<=55;i++){
111 //   if(i%2==0){
112 //     even.push(i)
113 //   }
114 //   else{
115 //     odd.push(i)
116 //   }
117 // }
118 console.log(even.length)
119 console.log(odd.length)
120
121 // task14
122 // for(let i=0;i<25;i++){
123 //   if(i%5==0){
124 //     console.log(i)
125 //   }
126 // }
```

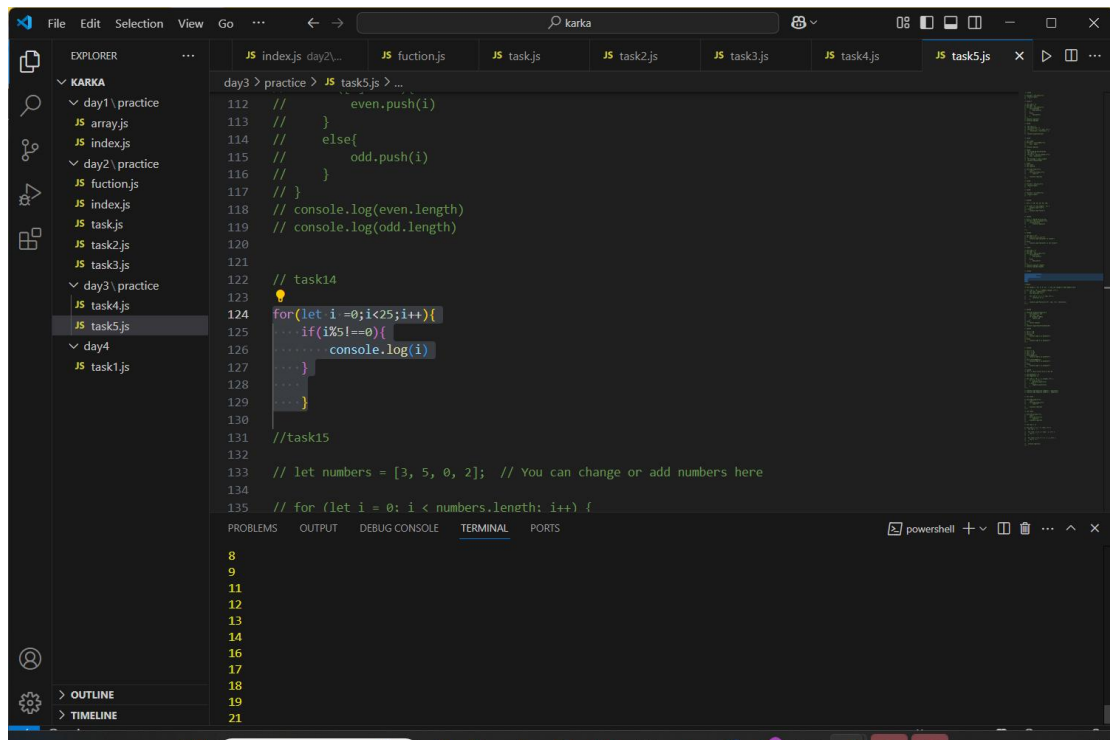
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\karka\day3\practice> node task5
true
PS D:\karka\day3\practice> node task5
50
60
70
10
PS D:\karka\day3\practice> node task5
character is not vowel
PS D:\karka\day3\practice>

```
102 // else{
103 //   console.log("character is not vowel")
104 // }
105
106 // task13
107
108 let even = []
109 let odd = []
110 for(let i=10;i<=55;i++){
111   if(i%2==0){
112     even.push(i)
113   }
114   else{
115     odd.push(i)
116   }
117 }
118 console.log(even.length)
119 console.log(odd.length)
120
121 // task14
122 // for(let i=0;i<25;i++){
123 //   if(i%5==0){
124 //     console.log(i)
125 //   }
126 // }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\karka\day3\practice> node task5
50
60
70
10
PS D:\karka\day3\practice> node task5
character is not vowel
PS D:\karka\day3\practice> node task5
23
23
PS D:\karka\day3\practice>

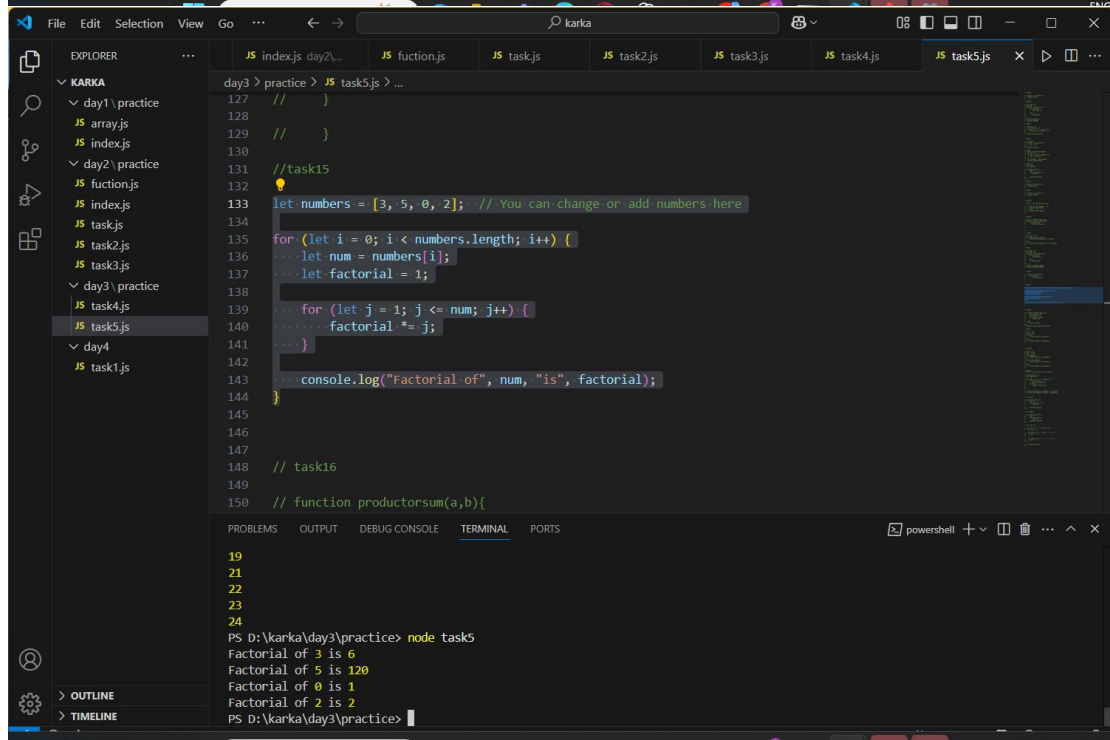


VS Code editor showing the file explorer on the left with a project named 'KARKA'. The file 'task5.js' is selected. The editor displays the following JavaScript code:

```
day3 > practice > JS task5.js > ...
112 // even.push(i)
113 // }
114 // else{
115 // odd.push(i)
116 // }
117 // }
118 // console.log(even.length)
119 // console.log(odd.length)
120
121
122 // task14
123
124 for(let i =0;i<25;i++){
125     if(i%5!=0){
126         console.log(i)
127     }
128 }
129
130
131 //task15
132
133 // let numbers = [3, 5, 0, 2]; // You can change or add numbers here
134
135 // for (let i = 0; i < numbers.length; i++) {
```

The terminal at the bottom shows the output of the code execution:

```
8
9
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16
17
18
19
21
```



VS Code editor showing the file explorer on the left with a project named 'KARKA'. The file 'task5.js' is selected. The editor displays the following JavaScript code:

```
day3 > practice > JS task5.js > ...
127 // }
128 // }
129 // }
130 //task15
131
132
133 let numbers = [3, 5, 0, 2]; // You can change or add numbers here
134
135 for (let i = 0; i < numbers.length; i++) {
136     let num = numbers[i];
137     let factorial = 1;
138
139     for (let j = 1; j <= num; j++) {
140         factorial *= j;
141     }
142
143     console.log("Factorial of", num, "is", factorial);
144 }
145
146
147
148 // task16
149
150 // function productsum(a,b){
```

The terminal at the bottom shows the output of the code execution:

```
19
21
22
23
24
PS D:\karka\day3\practice> node task5
Factorial of 3 is 6
Factorial of 5 is 120
Factorial of 0 is 1
Factorial of 2 is 2
PS D:\karka\day3\practice>
```

The screenshot shows the Visual Studio Code editor with a file named `task5.js` open. The file contains a function `productorsum(a,b)` that calculates the factorial of a number. The terminal window shows the output of running the script, displaying the factorial of 3, 5, 0, and 2.

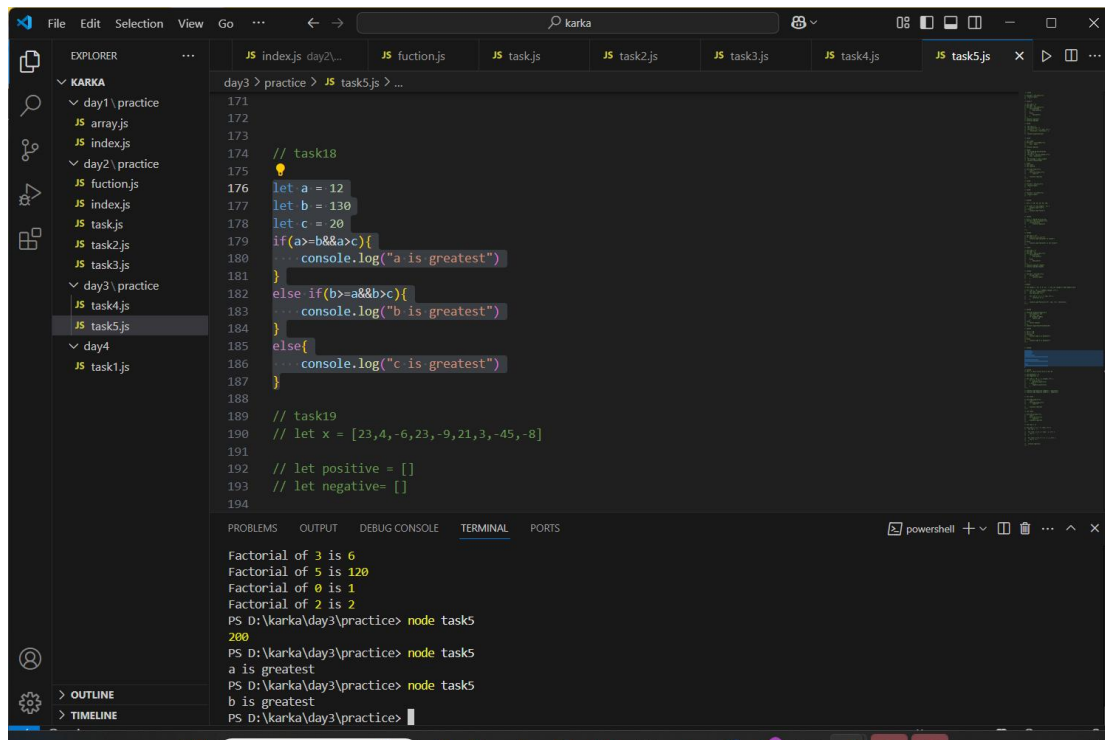
```
day3 > practice > JS task5.js > productorsum
144 //
145
146 // console.log("Factorial of", num, "is", factorial);
147 // }
148
149 // task16
150 function productorsum(a,b){
151   ... let product = a*b
152   ... let sum = a+b
153   ... if (product >500){
154     ... return sum
155   }
156   else{
157     ... return product
158   }
159   console.log(productorsum(20,10))
160
161 // task17
162
163 // let a = 40
164 // let b = 20
165
166
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```
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24
PS D:\karka\day3\practice> node task5
Factorial of 3 is 6
Factorial of 5 is 120
Factorial of 0 is 1
Factorial of 2 is 2
PS D:\karka\day3\practice> node task5
200
PS D:\karka\day3\practice>
```

The screenshot shows the Visual Studio Code editor with a file named `task5.js` open. The file contains a function `productorsum(a,b)` and a function `if(a>b)` that compares two numbers. The terminal window shows the output of running the script, displaying the factorial of 3, 5, 0, and 2, and the result of the comparison.

```
day3 > practice > JS task5.js > ...
152 // let sum = a+b
153 // if (product >500){
154 //   return sum
155 // }
156 // else{
157 //   return product
158 // }}
159 // console.log(productorsum(20,10))
160
161 // task17
162
163 let a = 40
164 let b = 20
165 if(a>b){
166   console.log("a is greatest")
167 }
168 else{
169   console.log("b is greatest")
170 }
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174 // task18
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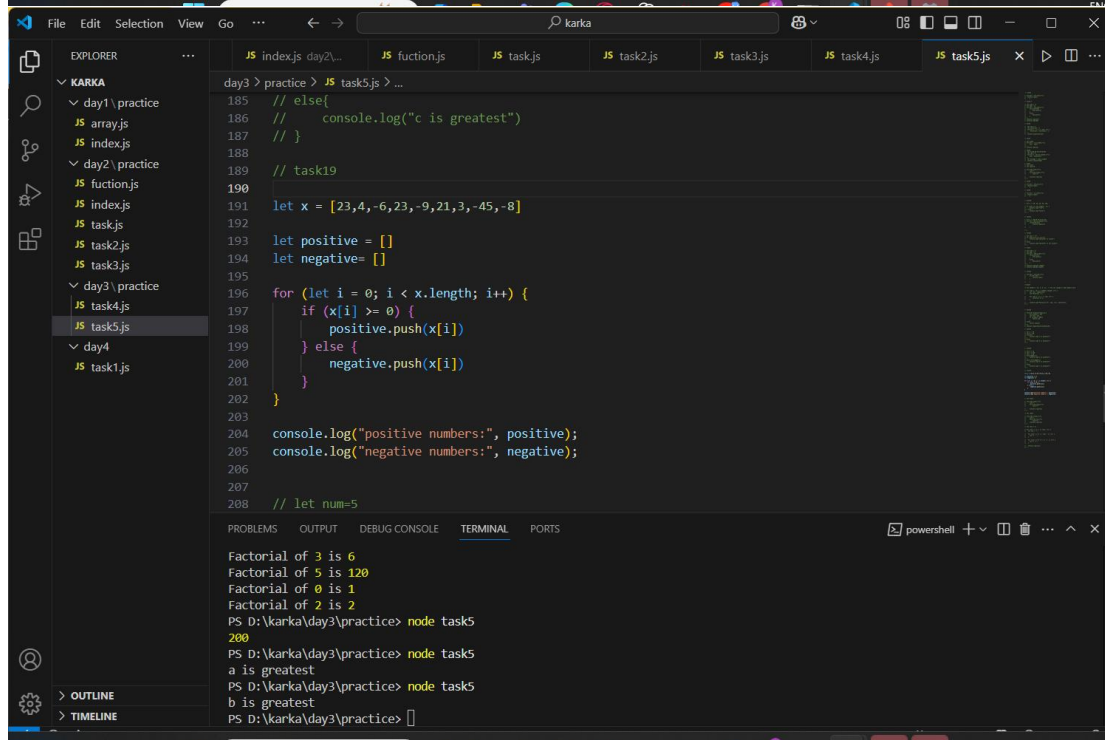
```
24
PS D:\karka\day3\practice> node task5
Factorial of 3 is 6
Factorial of 5 is 120
Factorial of 0 is 1
Factorial of 2 is 2
PS D:\karka\day3\practice> node task5
200
PS D:\karka\day3\practice> node task5
a is greatest
PS D:\karka\day3\practice>
```

```
day3 > practice > JS task5.js > ...
171
172
173
174 // task18
175
176 let a = 12
177 let b = 130
178 let c = 20
179 if(a>b&&a>c){
180     console.log("a is greatest")
181 }
182 else if(b>a&&b>c){
183     console.log("b is greatest")
184 }
185 else{
186     console.log("c is greatest")
187 }
188
189 // task19
190 // let x = [23,4,-6,23,-9,21,3,-45,-8]
191
192 // let positive = []
193 // let negative= []
194
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Factorial of 3 is 6
Factorial of 5 is 120
Factorial of 0 is 1
Factorial of 2 is 2
PS D:\karka\day3\practice> node task5
200
PS D:\karka\day3\practice> node task5
a is greatest
PS D:\karka\day3\practice> node task5
b is greatest
PS D:\karka\day3\practice>



```
day3 > practice > JS task5.js > ...
185 // else{
186 //     console.log("c is greatest")
187 // }
188
189 // task19
190
191 let x = [23,4,-6,23,-9,21,3,-45,-8]
192
193 let positive = []
194 let negative= []
195
196 for (let i = 0; i < x.length; i++) {
197     if (x[i] >= 0) {
198         positive.push(x[i])
199     } else {
200         negative.push(x[i])
201     }
202 }
203
204 console.log("positive numbers:", positive);
205 console.log("negative numbers:", negative);
206
207
208 // let num=5
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Factorial of 3 is 6
Factorial of 5 is 120
Factorial of 0 is 1
Factorial of 2 is 2
PS D:\karka\day3\practice> node task5
200
PS D:\karka\day3\practice> node task5
a is greatest
PS D:\karka\day3\practice> node task5
b is greatest
PS D:\karka\day3\practice>

```
day3 > practice > JS task5.js > ...
75 // for(j=0;j<5;j++){
76 //   row+=" "
77 // } console.log(row)
78 // }
79
80 let rows = 4;
81
82 for (let i = 1; i <= rows; i++) {
83   let row = '';
84   for (let j = 0; j < rows - i; j++) {
85     row += ' ';
86   }
87   for (let k = 0; k < 2 * i - 1; k++) {
88     row += '*';
89   }
90   console.log(row);
91 }
92
93 // task8
94 // for(let i =0;i<5;i++){
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\karka\day3\practice> node task5
a is greatest
PS D:\karka\day3\practice> node task5
b is greatest
PS D:\karka\day3\practice> node task5
*
*****
*****
PS D:\karka\day3\practice>
```

```
day3 > practice > JS task5.js > ...
70 // }
71 let num=5;
72
73 for(i=0;i<=num;i++){
74   row=""
75   for(j=0;j<5;j++){
76     row+=" "
77   } console.log(row)
78 }
79
80 // let rows = 4;
81
82 // for (let i = 1; i <= rows; i++) {
83 //   let row = '';
84 //   for (let j = 0; j < rows - i; j++) {
85 //     row += ' ';
86 //   }
87 //   for (let k = 0; k < 2 * i - 1; k++) {
88 //     row += '*';
89 //   }
90 //   console.log(row);
91 // }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\karka\day3\practice> node task5
a is greatest
PS D:\karka\day3\practice> node task5
b is greatest
PS D:\karka\day3\practice> node task5
*
*****
*****
PS D:\karka\day3\practice>
```