

Q1;

```
task1 > JS task1.js > ...
1 const num= [1, 2, 3, 4, 5];
2 const square = (arr) => arr.map(num => num * num);
3 console.log(square(num));
```

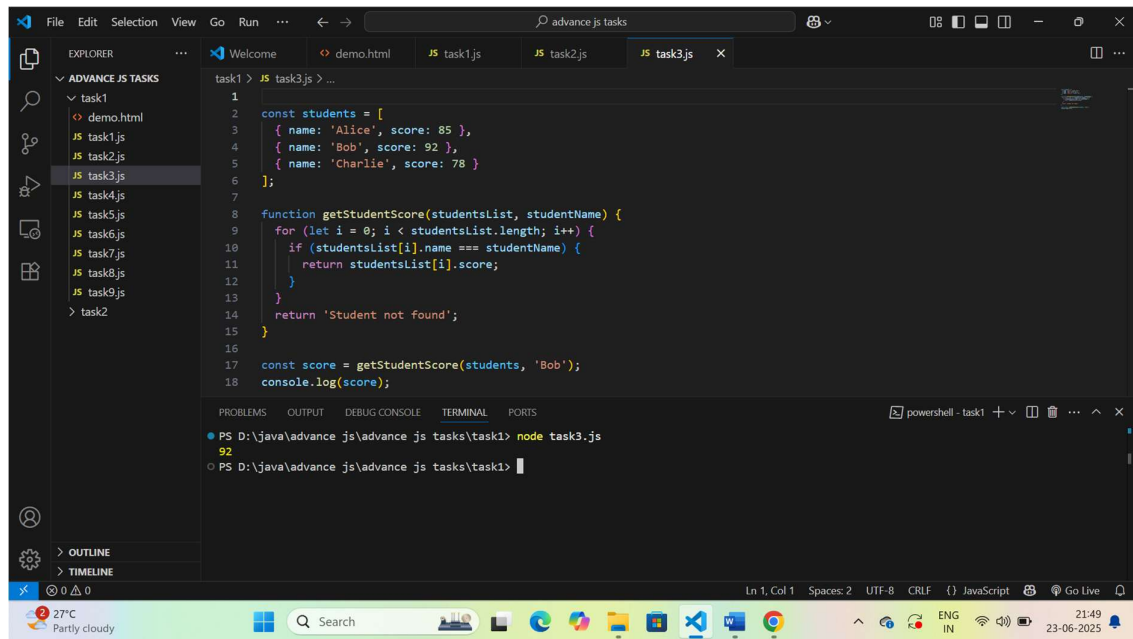
```
PS D:\java\advance js\advance js tasks> cd task1
PS D:\java\advance js\advance js tasks\task1> node task1.js
[ 1, 4, 9, 16, 25 ]
PS D:\java\advance js\advance js tasks\task1>
```

Q2;

```
task1 > JS task2.js > ...
1 const obj1={a:1,b:2};
2 const obj2={c:3,d:4};
3 const obj3={e:5,f:6};
4 const result={...obj1,...obj2,...obj3};
5 console.log(result);
```

```
PS D:\java\advance js\advance js tasks\task1> node task2.js
{ a: 1, b: 2, c: 3, d: 4, e: 5, f: 6 }
PS D:\java\advance js\advance js tasks\task1>
```

Q3;



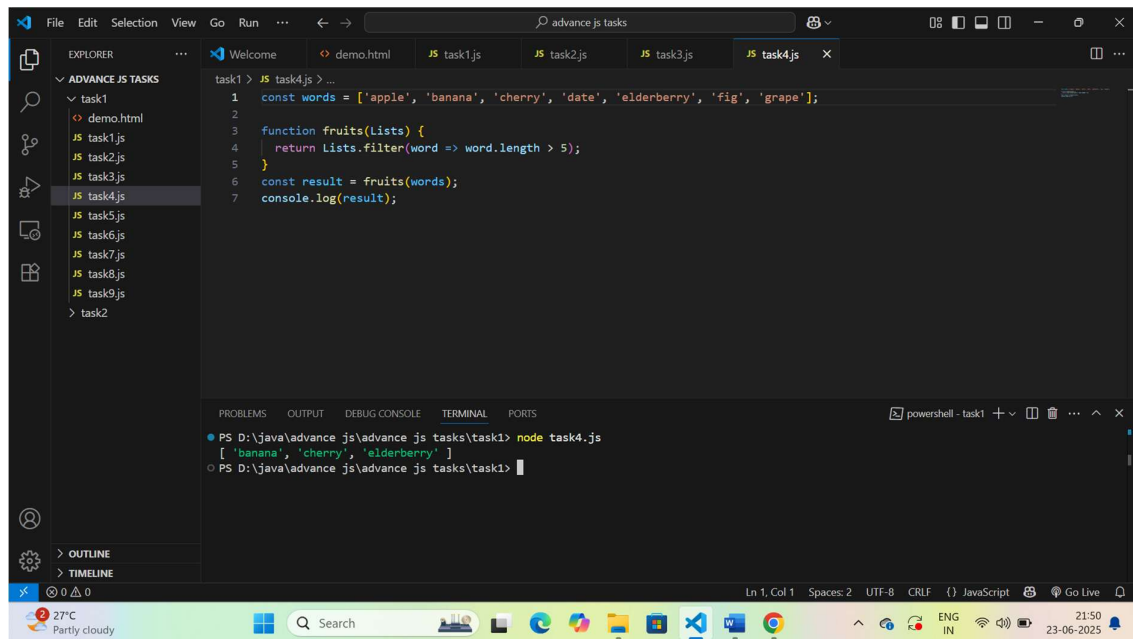
The screenshot shows the VS Code editor with the Explorer sidebar on the left displaying a file tree for 'ADVANCE JS TASKS'. The file 'task3.js' is selected. The main editor area shows the code for 'task3.js' with the following content:

```
1
2 const students = [
3   { name: 'Alice', score: 85 },
4   { name: 'Bob', score: 92 },
5   { name: 'Charlie', score: 78 }
6 ];
7
8 function getStudentScore(studentsList, studentName) {
9   for (let i = 0; i < studentsList.length; i++) {
10     if (studentsList[i].name === studentName) {
11       return studentsList[i].score;
12     }
13   }
14   return 'Student not found';
15 }
16
17 const score = getStudentScore(students, 'Bob');
18 console.log(score);
```

The bottom panel shows the 'TERMINAL' with the following output:

```
PS D:\java\advance js\advance js tasks\task1> node task3.js
92
PS D:\java\advance js\advance js tasks\task1>
```

Q4;



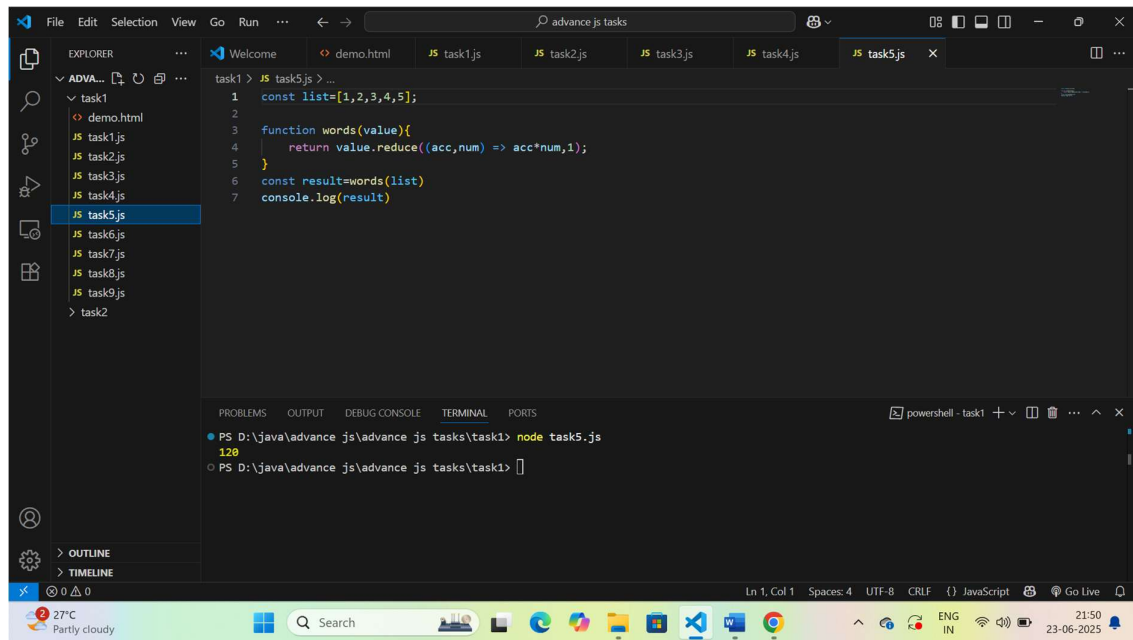
The screenshot shows the VS Code editor with the Explorer sidebar on the left displaying a file tree for 'ADVANCE JS TASKS'. The file 'task4.js' is selected. The main editor area shows the code for 'task4.js' with the following content:

```
1 const words = ['apple', 'banana', 'cherry', 'date', 'elderberry', 'fig', 'grape'];
2
3 function fruits(Lists) {
4   return Lists.filter(word => word.length > 5);
5 }
6 const result = fruits(words);
7 console.log(result);
```

The bottom panel shows the 'TERMINAL' with the following output:

```
PS D:\java\advance js\advance js tasks\task1> node task4.js
[ 'banana', 'cherry', 'elderberry' ]
PS D:\java\advance js\advance js tasks\task1>
```

Q5;



The screenshot shows the Visual Studio Code editor with a project named 'advance js tasks'. The Explorer sidebar on the left shows a folder 'task1' containing files 'demo.html', 'task1.js', 'task2.js', 'task3.js', 'task4.js', 'task5.js', 'task6.js', 'task7.js', 'task8.js', 'task9.js', and 'task2'. The file 'task5.js' is selected and open in the editor. The code in 'task5.js' is as follows:

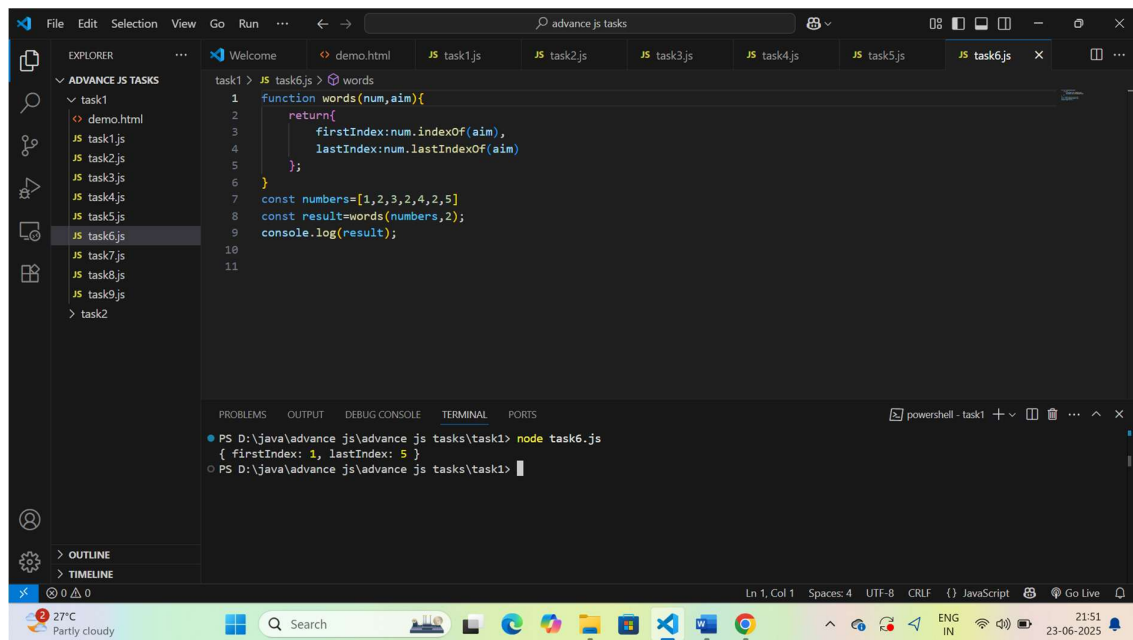
```
1 const list=[1,2,3,4,5];
2
3 function words(value){
4     return value.reduce((acc,num) => acc*num,1);
5 }
6 const result=words(list)
7 console.log(result)
```

The bottom panel shows the 'TERMINAL' tab with the following output:

```
PS D:\java\advance js\advance js tasks\task1> node task5.js
120
PS D:\java\advance js\advance js tasks\task1>
```

The status bar at the bottom indicates 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'JavaScript', and 'Go Live'.

Q6;



The screenshot shows the Visual Studio Code editor with the same project 'advance js tasks'. The Explorer sidebar shows the same file structure as before. The file 'task6.js' is selected and open in the editor. The code in 'task6.js' is as follows:

```
1 function words(num,aim){
2     return{
3         firstIndex:num.indexOf(aim),
4         lastIndex:num.lastIndexOf(aim)
5     };
6 }
7 const numbers=[1,2,3,2,4,2,5]
8 const result=words(numbers,2);
9 console.log(result);
10
11
```

The bottom panel shows the 'TERMINAL' tab with the following output:

```
PS D:\java\advance js\advance js tasks\task1> node task6.js
{ firstIndex: 1, lastIndex: 5 }
PS D:\java\advance js\advance js tasks\task1>
```

The status bar at the bottom indicates 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'JavaScript', and 'Go Live'.

Q7;

The screenshot shows the Visual Studio Code interface with a project named 'ADVANCE JS TASKS'. The Explorer sidebar on the left shows a folder 'task1' containing 'demo.html' and several JavaScript files from 'task1.js' to 'task9.js'. The main editor window displays 'task1 > JS task7.js' with the following code:

```
1 function num(value){
2   return Array.isArray(value);
3 }
4 console.log(num([1,2,3]));
5 console.log(num("hello"));
```

Below the editor, the integrated terminal shows the command `node task7.js` being executed, with the output:

```
true
false
```

The status bar at the bottom indicates 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'JavaScript', and 'Go Live'.

Q8;

The screenshot shows the Visual Studio Code interface with the same project. The Explorer sidebar is identical. The main editor window displays 'task1 > JS task8.js' with the following code:

```
1 function Word(sentence, word) {
2   return sentence.includes(word);
3 }
4 const sentence = 'The quick brown fox jumps over the lazy dog';
5 const word = 'fox';
6 const result = Word(sentence, word);
7 console.log(result);
```

The integrated terminal shows the command `node task8.js` being executed, with the output:

```
true
```

The status bar at the bottom indicates 'Ln 1, Col 1', 'Spaces: 2', 'UTF-8', 'CRLF', 'JavaScript', and 'Go Live'.

Q9;

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a folder named 'ADVANCE JS TASKS' containing a 'task1' subfolder with files 'demo.html', 'task1.js', 'task2.js', 'task3.js', 'task4.js', 'task5.js', 'task6.js', 'task7.js', 'task8.js', and 'task9.js'. The main editor area shows the content of 'task9.js' with the following code:

```
1 function printArrayKeys(arr) {  
2   let keys = arr.keys();  
3   for (let key of keys) {  
4     console.log(key);  
5   }  
6 }  
7 printArrayKeys(['apple', 'banana', 'cherry']);
```

Below the editor, the TERMINAL panel shows the command 'node task9.js' executed in a PowerShell window. The output displays the keys of the array: 0, 1, and 2.

```
PS D:\java\advance js\advance js tasks\task1> node task9.js  
0  
1  
2  
PS D:\java\advance js\advance js tasks\task1>
```

The status bar at the bottom indicates the current file is 'task9.js' at line 7, column 47, with 2 spaces, UTF-8 encoding, and CRLF line endings. The system tray at the very bottom shows the date and time as 21:58 on 23-06-2025.