```
ullet File Edit Selection View Go Run \cdots \leftarrow 	o
                                                                                                                83 ~
                                                                                                                                 0: □ □ □ −
EXPLORER
                    ... JS task1.js X JS task2.js JS task3.js JS task4.js JS task5.js
     ∨ TASK3
Js task1.js
      JS task2.js
                                 function find(strings) {
   return strings.reduce((longest, current) =>
   current.length > longest.length ? current : longest
JS task3.js
     JS task5.js
                             9 console.log(find(input1));
      JS task9.js
                                                                                                                                ☑ powershell + ∨ □ 🛍 ··· ∧ ×
                          PS D:\java\advance js\advance js tasks\task3> node task1.js
                           banana
⊃ PS D:\java\advance js\advance js tasks\task3>
> outline > timeline
× ⊗ 0 <u>A</u> 0
                                                                                                      Ln 9, Col 27 Spaces: 4 UTF-8 CRLF {} JavaScript 😝 🏟 Go Live
                                                                                                                      🍲 L C 🥨 🔚 🖪 🛪 🔘 💇
                                 Q Search
```

Q2;

```
ightleftarrows File Edit Selection View Go Run \cdots \leftarrow 
ightarrow
                                                                                                                                      08 🔲 📟 🔲 🗕
EXPLORER
                     ... JS task1.js JS task2.js X JS task3.js JS task4.js JS task5.js JS task6.js JS task7.js
JS task1.js
JS task2.js
                              function flattenArray(arr) {
    return arr.reduce((flat, current) => flat.concat(current), []);
}
for console.log(flattenArray(input));
     JS task4.js
     JS task7.is
     JS task8.js
                            PS D:\java\advance js\advance js tasks\task3> node task2.js
                               1, 2, 3, 4, 5,
6, 7, 8, 9
                             PS D:\java\advance js\advance js tasks\task3>
> OUTLINE > TIMELINE
× ⊗0∆0
                                                                                                          Ln 6, Col 31 Spaces: 4 UTF-8 CRLF {} JavaScript 🔠 ◎ Go Live 🚨
 27°C
Partly cloudy
                                                             🍲 🖿 C 🧖 📜 🗈 💆 🧿 👺
                                                                                                                          Q Search
```

```
0: □ □ □ −
📢 File Edit Selection View Go Run …
                                                                                                                  83 ~
EXPLORER
                                          JS task2.js JS task3.js X JS task4.js
    ∨ TASK3
                              const input = ['apple', 'banana', 'apple', 'orange', 'banana', 'apple'];
JS task3.js
                                  return words.reduce((count, word) => {
   count[word] = (count[word] || 0) + 1;
   return count;
     JS task5.is
                             JS task9.is
                                                                                                                                   ☑ powershell + ∨ □ 🛍 ··· ^ ×
                           PS D:\java\advance js\advance js tasks\task3> node task3.js
{ apple: 3, banana: 2, orange: 1 }
PS D:\java\advance js\advance js tasks\task3>
> outline > timeline
× ⊗ 0 ∆ 0
                                                                                                        Ln 9, Col 18 Spaces: 4 UTF-8 CRLF {} JavaScript 😝 🏟 Go Live
                                                            🍲 🖿 C 🥠 📜 🖪 🛪 🧿 👺
                                                                                                                         Q Search
```

Q4;

```
ightharpoonup File Edit Selection View Go Run \cdots \leftarrow 
ightharpoonup
                                                                                                                                                                  08 🔲 📟 🗇 🗕
                                                                                                                                            88 ~
EXPLORER
                           ... JS task1.js JS task2.js JS task3.js JS task4.js X JS task5.js JS task6.js JS task7.js
                                        JS task3.js
     JS task4.js
       JS task5.js
       JS task7.is
                                          function groupBy(arr, property) {
   return arr.reduce((result, obj) => {
     const key = obj[property];
   if (!result[key]) {
        result[key] = [];
   }
}
       JS task8.js
                                            result[key] = [];
}
result[key].push(obj);
return result;
}, {});
                                                                                                                                                                ⊵ powershell + ∨ □ 🛍 ··· ^ ×
                                 PS D:\java\advance js\advance js tasks\task3> node task4.js
                                      '21': [ { name: 'Alice', age: 21 }, { name: 'Charlie', age: 21 } ], '22': [ { name: 'Eve', age: 22 } ], '25': [ { name: 'Bob', age: 25 }, { name: 'David', age: 25 } ]
                                   }
PS D:\java\advance js\advance js tasks\task3>
> OUTLINE > TIMELINE
× ⊗ 0 <u>A</u> 0
                                                                                                                               Ln 10, Col 13 Spaces: 4 UTF-8 CRLF {} JavaScript 🔠 📦 Go Live 🚨
18
                                                                                                                                                   ½ □ 0 0 □ □ 3 0 0
                                          Q Search
```

```
📢 File Edit Selection View Go Run …
                                                                                                                                                          0: 🔳 🖿 🖽
D
      ∨ TASK3
                                        const cart = [
    { item: 'apple', price: 1.5 },
    { item: 'banana', price: 2.0 },
    { item: 'orange', price: 1.25 }
      JS task1.js
JS task2.js
       JS task4.js
       JS task6.js
                                       function Total(value) {
    return value.reduce((total, item) => total + item.price, 0);
}
       JS task9.is
                                                                                                                                                        ☑ powershell + ∨ Ⅲ 🛍 ··· ^ ×
                               • PS D:\java\advance js\advance js tasks\task3> node task5.js
                               4.75
OPS D:\java\advance js\advance js tasks\task3>
> OUTLINE > TIMELINE
× ⊗ 0 ∆ 0
                                                                                                                         Ln 10, Col 26 Spaces: 4 UTF-8 CRLF {} JavaScript 😝 📦 Go Live
 9
                                                                      2 □ 0 0 □ □ 0 0
                                                                                                                                           ^ © ENG © ♠ (05:11 ♣ 24-06-2025 ♣
                                       Q Search
```

Q6;

```
| File Edit Selection | View Go Run | We | File | F
```

```
08 🔲 🗎 🗍 —
D
     ∨ TASK3
                                   JS task1.js
      JS task4.js
                                   function findStudentByName(students, name) {
    return students.find(student => student.name === name);
}
      JS task8.js
                                    console.log(findStudentByName(students, 'Bob'));
      JS task9.is
                                                                                                                                       ☑ powershell + ∨ Ⅲ 🛍 ··· ^ ×
                           PS D:\java\advance js\advance js tasks\task3> node task7.js
{ name: '800', age: 25 }

PS D:\java\advance js\advance js tasks\task3>
> OUTLINE > TIMELINE
× ⊗ 0 ∆ 0
                                                                                                            Ln 11, Col 1 Spaces: 4 UTF-8 CRLF {} JavaScript 😝 🏟 Go Live
                                                              2 □ ○ 0 □ □ □ ∨ ○ ○
                                                                                                                            Q Search
```

Q8;

