

The screenshot shows the Visual Studio Code (VS Code) interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, Help, and a search bar labeled "Task 3". The left sidebar features the Explorer, Open Editors, Task 3, Outline, and Timeline panes. The main area contains three tabs: "JS ReduceCustom.js", "JS DeepClone.js", and "JS destructure.js". The "JS ReduceCustom.js" tab is active, displaying the following code:

```
1 //Custom reduce for flat array
2 function customReduce(array, callback, acc) {
3     //Loop for each element of array
4     for (let i = 0; i < array.length; i++) {
5         acc = callback(acc, array[i]); //acc-previous accumulated value array[i]-currnt element
6     }
7     return acc; //return final value
8 }

9 //custom reduce also supports nested array
10 function nestedReduce(arr, callback, acc) {
11     for (let item of arr) {
12         if (Array.isArray(item)) { //check if current item is an array
13             acc = nestedReduce(item, callback, acc); //recursively call nestedReduce for nested array and acc is passed to acc continue
14         } else {
15             acc = callback(acc, item); //if value is normal value,apply callback
16         }
17     }
18     return acc;
19 }
20
21
22
23 const num = [1, 2, 3, 4]; //simple array
24 const sum = customReduce(num, (acc, val) => acc + val, 0); //using customReduce and initial accumulator is 0
25
26 const num2 = [[1, [2, 3], [4, [5]]]]; //nested array
27 const sum2 = nestedReduce(num2, (acc, value) => acc + value, 0);
28
29
30 console.log(sum);
31 console.log(sum2);
```

The bottom right corner displays a "Build with Agent" panel with the message "Build with Agent" and "AI responses may be inaccurate. Generate Agent Instructions to onboard AI onto your codebase." Below this are "SUGGESTED ACTIONS" buttons for "Build Workspace" and "Show Config". The status bar at the bottom shows "ln 26, col 54" and "6:18 PM 12/27/2025".

The screenshot shows the Visual Studio Code (VS Code) interface. The main area is the code editor with three tabs open: `JS ReduceCustom.js`, `JS DeepClone.js` (which is currently active), and `JS destructure.js`. The `DeepClone.js` tab contains the following JavaScript code:

```
function deepClone(obj){  
    if (obj === null || typeof obj !== 'object') {  
        return obj;  
    }  
    const copy = Array.isArray(obj) ? [] : {};  
    for(let key in obj){  
        copy[key] = deepClone(obj[key]);  
    }  
    return copy; //returned cloned value.  
}  
  
const person = {  
    name: "prya",  
    address: {  
        city: "pune",  
        pin:411033  
    }  
};  
const clonePerson = deepClone(person);  
clonePerson.address.city = "mumbai";  
  
console.log(person.address.city)  
console.log(clonePerson.address.city);
```

The bottom right corner of the code editor has a "Build with Agent" feature with the message: "Build with Agent" and "AI responses may be inaccurate. Generate Agent Instructions to onboard AI onto your codebase." Below the code editor is the "PROBLEMS" panel, which shows several errors related to tracing and module loading.

The bottom of the screen features the Windows taskbar with various pinned icons and the system tray showing the date and time as 12/27/2025 at 6:18 PM.

The screenshot shows a code editor interface with a dark theme. The top bar includes standard menu items: File, Edit, Selection, View, Go, Run, Terminal, Help, and a search bar labeled 'Task 3'. The left sidebar contains icons for Explorer, Open Editors, Task 3, and Timeline. The main workspace has three tabs open: 'JS ReduceCustom.js', 'JS DeepClone.js', and 'JS destructure.js' (which is currently active). The code in 'destructure.js' is as follows:

```
function destructure(obj, keys){ //A function to extract specific properties from an obj
  const result = {};
  keys.forEach(key =>{ //If obj exists, get the value of obj[key] and store it in result
    result[key] = obj?.[key]; //If obj[key] doesn't exist, result [key] will be undefined
  });
  return result;
}
const user = {
  name: "priyanka",
  age: 24,
  city: "pune"
};
//Destructure the object using our fun
const{name, age} = destructure(user, ["name", "age"]); //This will create a new object and then destructures it into variables n
console.log(name);
console.log(age);
```

The bottom right corner features a 'Build with Agent' button with a progress bar and the text 'Build with Agent' and 'AI responses may be inaccurate. Generate Agent Instructions to onboard AI onto your codebase.' Below this is a 'PROBLEMS' tab showing a single error message: 'at TracingChannel.traceSync (node:diagnostics_channel:372:14) at wrapModuleLoad (node:internal/modules/cjs/loader:235:24) at Function.executeUserEntryPoint [as runMain] (node:internal/modules/run_main:171:5) at node:internal/main/run_main_module:36:49'. The bottom status bar displays file paths, terminal settings (Ln 17, Col 22, Spaces:4, UTF-8, CRLF), and system information (Windows 10, 618 PM, 27°C Partly cloudy, 12/27/2025).