

## **PartOne:**

**1-Build a todoList object:** Create an object todoList that manages a list of tasks. It should have:

- A property tasks (an array, initially empty) to hold the task names.
- A method addTask(task) that adds a new task to the list.
- A method removeTask(task) that removes a task by name.
- A method listTasks() that logs all tasks to the console (one per line).

**2- Build User Profile Object :** Create a user object with properties name (string) and age (number). Inside it, add a nested object address with properties street and city. Then add a method getFullAddress() that returns the full address as a string (e.g., "123 Main St, Anytown").

Array OF USer profile Object  
Sorting By Name ,Age  
//Filter By age ====>24

## **PartTwo:**

-Build Your Employee Object with properties (Id,Name,Age,Salary,Dep)

-Create Object for Employee Crud with properties

- EmployeesArray AddnewEmp,DeleteEmp,SearchForEmpWithId

--Consider You have Array Of Employees

--use this Array To:

Q1: Create a function that returns another function that Take Emp and Return it's Name e

Q2: Create a counter function that increases every time it's called.

Q3: Create a function that tracks how many times a button is clicked each Time Clicked To change Body Background.

Q4: Create a closure that adds a fixed number to any number.

Q5: Create a closure that keeps track of how many employees have been added.

Q6: Create a closure that Takea Bonus percentage and applies it To Emp Salary.

Q7: Create a closure that remembers a department name and returns a

Greeting.

Q8: Use map to get an array of employee names.

Q9: Use filter to get only employees who earn more than 4500.

Q10: Use reduce to calculate the total Salaries.

Q11: Create a pure function that increases an employee salary by 10%.

Q12: Add a new employee to EmpArray immutably(without changing the original use map).

Q13: Write a higher-order function applyBonus(fn).

Q14: Filter employees by department using a reusable curried function.

Q15: Use map to update salaries (+5%) without modifying the original.