

main.js



Share

Run

Output

```
1 // 📁 1. HR Management System
2 // Original Array:
3 // let employees = ["Amit", "Sneha", "Ravi", "John", "Neha"];
4 // Scenario: Move "John" to the top of the list so he appears first in the
  employee dashboard.
5
6
7
8 let employees = ["Amit", "Sneha", "Ravi", "John", "Neha"];
9
10 employees.unshift("john")
11 console.log(employees)
```

```
[ 'john', 'Amit', 'Sneha', 'Ravi', 'John', 'Neha' ]
```

```
=== Code Execution Successful ===
```

main.js	<div><div></div><div></div><div> Share</div><div>Run</div></div>	Output
<pre>1 // 🚀 2. Online Learning Platform 2 // Original Array: 3 // let courses = ["HTML", "CSS", "JavaScript", "Python", "SQL"]; 4 5 // Scenario: A student mistakenly enrolled in "Python" twice. Remove the // second instance. 6 7 let courses = ["HTML", "CSS", "JavaScript", "Python", "SQL"]; 8 9 courses.splice(3,1); 10 11 console.log(courses); 12</pre>	<pre>['HTML', 'CSS', 'JavaScript', 'SQL'] === Code Execution Successful ===</pre>	

main.js	<div><div><div><div></div></div><div><div></div></div></div><div><div></div></div><div><div>Share</div></div><div><div>Run</div></div></div>	Output
<pre>1 // 3. E-commerce Website 2 // Original Array: 3 // let cart = ["T-shirt", "Shoes", "Jeans", "Cap"]; 4 5 // Scenario: Insert a "Wallet" item right after "Shoes". 6 7 8 let cart = ["T-shirt", "Shoes", "Jeans", "Cap"]; 9 10 cart.splice(2,0,"Wallet") 11 12 console.log(cart)</pre>	<pre>['T-shirt', 'Shoes', 'Wallet', 'Jeans', 'Cap'] === Code Execution Successful ===</pre>	

main.js			Share	Run	Output
<pre>1 // 📁 4. Hospital Management App 2 3 // Original Array: 4 // let patients = ["Rina", "Ayaan", "Soham", "Deep", "Nisha"]; 5 6 // Scenario: Remove "Soham" as he was mistakenly added twice in the system 7 8 let patients = ["Rina", "Ayaan", "Soham", "Deep", "Nisha"]; 9 10 patients.splice(2,1) 11 12 console.log(patients)</pre>	['Rina', 'Ayaan', 'Deep', 'Nisha']				
					=== Code Execution Successful ===

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```

1  // 🎓 5. School Admin Portal
2
3  // Original Array:
4  // let subjects = ["Math", "Science", "English", "History", "Geography"];
5
6  // Scenario: A student resubmitted "Science Project" – insert "Science
   Project (Revised)" just after "Science".
7
8  let subjects = ["Math", "Science", "English", "History", "Geography"];
9
10 subjects.splice(2,0,"Science Project(Revised)")
11
12 console.log(subjects)
13

```

```

[
  'Math',
  'Science',
  'Science Project(Revised)',
  'English',
  'History',
  'Geography'
]

=== Code Execution Successful ===

```

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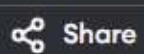
Output

```
1 // 🎬 6. Movie Streaming App
2
3 // Original Array:
4 // let watchlist = ["Inception", "Interstellar", "Tenet", "Dunkirk"];
5
6 // Scenario: Move "Tenet" to the start of the watchlist.
7
8 let watchlist = ["Inception", "Interstellar", "Tenet", "Dunkirk"];
9
10 let i = watchlist.indexOf("Tenet");
11
12 // console.log(i)
13
14 watchlist.splice(i,1);
15 |
16 // console.log(watchlist)
17
18 watchlist.unshift("Tenet")
19 console.log(watchlist);
```

```
[ 'Tenet', 'Inception', 'Interstellar', 'Dunkirk' ]
```

```
=== Code Execution Successful ===
```

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Output

```
1 // 🏠 7. Warehouse Inventory System
2 // Original Array:
3 // let items = [ "Box D", "Box A", "Box B", "Box C", "Box E"];
4
5 // Scenario: Due to a packing error, "Box C" and "Box D" must be removed.
6
7 let items = [ "Box D", "Box A", "Box B", "Box C", "Box E"];
8
9 items.splice(0,1)
10 items.splice(2,1)
11 |
12 console.log(items)
13
```

['Box A', 'Box B', 'Box E']

=== Code Execution Successful ===

main.js

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Run

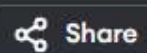
```
1 // 📁 8. Finance Dashboard
2 // Original Array:
3 // let transactions = ["Salary", "Groceries", "Electricity", "Dining",
4 //   "Internet"];
5 // Scenario: Create a snapshot of the middle 3 expenses ("Groceries" to
6 //   "Dining") for analysis.
7
8 let transactions = ["Salary", "Groceries", "Electricity", "Dining",
9   "Internet"];
10
11 let snapshot = transactions.slice(1,4);
12 console.log(snapshot)
```

Output

['Groceries', 'Electricity', 'Dining']

=== Code Execution Successful ===

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Output

```
1 // 🏠 9. Property Listing Website
2 // Original Array:
3 // let properties = ["Villa", "Apartment", "Studio", "Penthouse",
4 //   "Farmhouse"];
5 // Scenario: Display only the last 3 property types as a "Luxury Picks"
6 //   carousel.
7 let properties = ["Villa", "Apartment", "Studio", "Penthouse", "Farmhouse"]
8 ;
9 let Luxury_Picks = properties.slice(-3)
10 console.log(Luxury_Picks)
11
```

```
[ 'Studio', 'Penthouse', 'Farmhouse' ]
```

```
=== Code Execution Successful ===
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```
1 // 🚒 10. Emergency Alert App
2 // Original Array:
3
4 // let alerts = ["Fire", "Earthquake", "Flood", "Tornado", "Storm"];
5
6 // Scenario: Temporarily display only the first 3 alerts on a widget.
7
8 let alerts = ["Fire", "Earthquake", "Flood", "Tornado", "Storm"];
9
10 let NewArr = alerts.slice(0,3)
11
12 console.log(NewArr)
13
```

Output

['Fire', 'Earthquake', 'Flood']

=== Code Execution Successful ===

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```
1 // 11. Travel Planner App
2 // Original Array:
3 // let itinerary = ["Flight", "Hotel", "Car Rental", "City Tour",
4 //   "Dinner"];
5 // Scenario: The user cancelled "City Tour" – remove it from the plan.
6
7
8 let itinerary = ["Flight", "Hotel", "Car Rental", "City Tour", "Dinner"];
9
10
11 itinerary.splice(3,1)
12 console.log(itinerary)
13
```

['Flight', 'Hotel', 'Car Rental', 'Dinner']

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```
1
2 // 12. Mental Health Tracker
3 // Original Array:
4 // let moods = ["Happy", "Anxious", "Calm", "Stressed", "Content"];
5
6 // Scenario: Move "Calm" to the end of the list to reflect mood
  progression.
7
8
9 let moods = ["Happy", "Anxious", "Calm", "Stressed", "Content"];
10
11 let n = moods.splice(2,1)
12 // console.log(n)
13
14 // moods.push(n)
15
16 moods.push("Calm")
17 console.log(moods)
```

```
[ 'Happy', 'Anxious', 'Stressed', 'Content', 'Calm' ]
```

```
=== Code Execution Successful ===
```

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Output

```
1 // 📅 13. Task Management Tool
2 // Original Array:
3 // let tasks = ["Meeting", "Report", "Email", "Presentation", "Review"];
4
5 // Scenario: Replace "Email" with "Client Email" for clarity.
6
7
8
9 let tasks = ["Meeting", "Report", "Email", "Presentation", "Review"];
10
11 tasks.splice(2,1,"Client Email")
12
13 console.log(tasks)
```

```
[ 'Meeting', 'Report', 'Client Email', 'Presentation', 'Review' ]
```

```
=== Code Execution Successful ===
```

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```
1 // 🧑 14. Daycare App
2 // Original Array:
3 // let kids = ["Aarav", "Mira", "Kabir", "Nina", "Vivaan"];
4
5 // Scenario: Insert "Snack Break" between "Kabir" and "Nina" in the daily
  // schedule.
6
7
8 let kids = ["Aarav", "Mira", "Kabir", "Nina", "Vivaan"];
9
10 kids.splice(2,0,"Snack Break")
11
12 console.log(kids)
```


Output

['Aarav', 'Mira', 'Snack Break', 'Kabir', 'Nina', 'Vivaan']

=== Code Execution Successful ===

main.js

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 Run

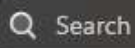

```
1 // 🇮🇳 15. Sales CRM Dashboard
2 // Original Array:
3 // let leads = ["Google", "Amazon", "Microsoft", "Netflix", "Tesla"];
4
5 // Scenario: Remove "Netflix" and place it at the bottom for de
  -prioritization
6
7 let leads = ["Google", "Amazon", "Microsoft", "Netflix", "Tesla"];
8
9 leads.splice(3,1)
10
11 console.log(leads)
12
13 leads.push("Netflix")
14
15 console.log(leads)
16
```


Output

```
[ 'Google', 'Amazon', 'Microsoft', 'Tesla' ]
[ 'Google', 'Amazon', 'Microsoft', 'Tesla', 'Netflix' ]

=== Code Execution Successful ===
```







ENG
IN

