

Task 7

7. Rendering Lists

Tasks:

1. Write a component that takes an array of names as a prop and displays them in a list.

ArrayToList.jsx

```
import React from 'react'
```

```
export default function ArrayToList(props) {  
  return (  
    <ul>  
      {props.names.map((name) => (  
        <li>{name}</li>  
      ))}  
    </ul>  
  )  
}
```

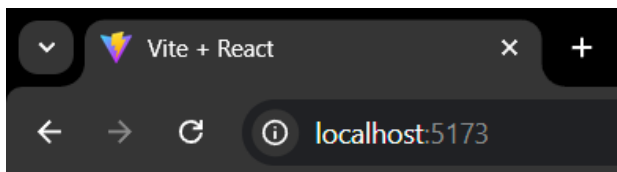
Main.jsx

```
import ArrayToList from './ArrayToList.jsx'
```

```
const names=["Apple","Orange","Watermelon","Pineapple"]
```

```
createRoot(document.getElementById('root')).render(  
  <StrictMode>  
    <ArrayToList names={names}/>  
  </StrictMode>  
)
```

Output



- Apple
- Orange
- Watermelon
- Pineapple

2. Create a `TodoList` component that displays a list of tasks and marks the completed ones.

TodoList.jsx

```
import React from 'react'
```

```
export default function TodoList(props) {  
  
  return (  
    <  
      <ol>  
        {props.tasks.map((task) => (  
          <li style={{  
            textDecoration : task.isCompleted ? "line-through" : "none"  
          }}> {task.name} </li>  
        ))}  
      </ol>  
    </>  
  )  
}
```

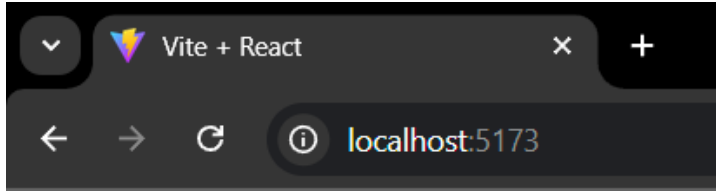
Main.jsx

```
import TodoList from './TodoList.jsx'
```

```
const tasks = [  
  {name:"HomeWork",isCompleted:true},  
  {name:"Project",isCompleted:false},  
  {name:"Report",isCompleted:true}  
]
```

```
createRoot(document.getElementById('root')).render(  
  <StrictMode>  
    <TodoList tasks={tasks}/>  
  </StrictMode>  
)
```

Output



1. ~~Home Work~~
2. ~~Project~~
3. ~~Report~~

3. Design a ProductList component that only displays products with a price less than \$10 using the filter() method.

ProductList.jsx

import React from 'react'

```
export default function ProductList(props) {  
  const showCaseProduct = props.products.filter(product=>product.price<10)  
  return (  
    <>  
      <ul>  
        {showCaseProduct.map((product)=>(  
          <li>{product.name}</li>  
        ))}  
      </ul>  
    </>  
  )  
}
```

Main.jsx

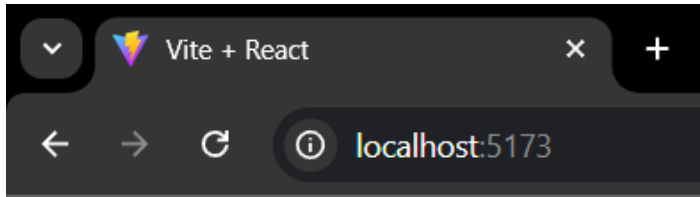
import ProductList from './ProductList.jsx'

```
const products = [  
  {name:"Laptop",price:1000},  
  {name:"Phone",price:500},  
  {name:"Pen",price:2},  
  {name:"Rice Flour",price:8},  
]
```

```
createRoot(document.getElementById('root')).render(  
  <StrictMode>  
    <ProductList products={products} />  
  </StrictMode>  
)
```

```
</StrictMode>
)
```

Output



- Pen
- Rice Flour

4. Make a `UserList` component that takes an array of user objects and displays their names and emails.

UserList.jsx

```
import React from 'react'
```

```
export default function UserList(props) {
  return (
    <>
      <ul>
        {props.content.map((content) => (
          <li>{content.name}&nbsp;&nbsp; {content.email}</li>
        ))}
      </ul>
    </>
  )
}
```

Main.jsx

```
import UserList from './UserList.jsx'
const contents = [
  {name:"Thor",email:"thor@gmail.com"},
  {name:"Iron Man",email:"ironman@gmail.com"},
  {name:"Captain America",email:"captainamerica@gmail.com"},
  {name:"Hulk",email:"hulk@gmail.com"},
]
```

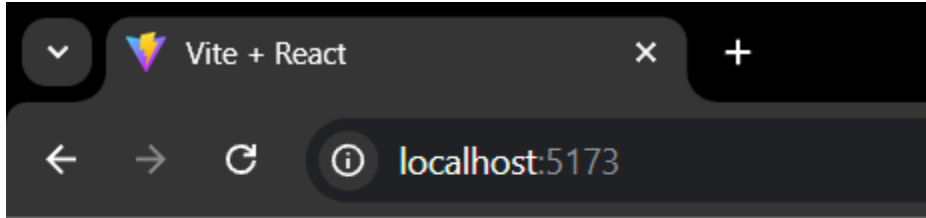
```
createRoot(document.getElementById('root')).render(
  <StrictMode>
```

```

    <UserList content={contents} />
  </StrictMode>
)

```

Output



- Thor: thor@gmail.com
- Iron Man: ironman@gmail.com
- Captain America: captainamerica@gmail.com
- Hulk: hulk@gmail.com

5. Create a ShoppingCart component that displays a list of items and their prices. Ensure each item has a unique key.

ShoppingCart.jsx

```
import React from 'react'
```

```

export default function ShoppingCart(props) {
  return (
    <div>
      <ul>
        {props.content.map((content) => (
          <li key={content.id}>{content.name}&nbsp;&nbsp; {content.price}</li>
        ))}
      </ul>
    </div>
  )
}

```

Main.jsx

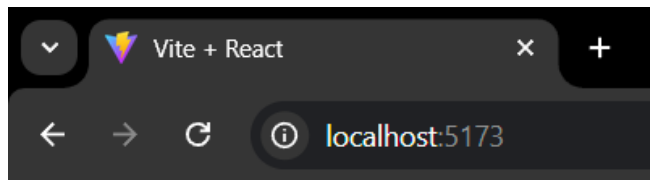
```

import ShoppingCart from './ShoppingCart.jsx'
const products = [
  {id:1,name:"Phone",price:25000},
  {id:2,name:"PC",price:75000},

```

```
{id:3,name:"Laptop",price:65000},  
{id:4,name:"Charger",price:1500},  
]  
  
createRoot(document.getElementById('root')).render(  
  <StrictMode>  
    <ShoppingCart content={products} />  
  </StrictMode>  
)
```

Output



- Phone: 25000
- PC: 75000
- Laptop: 65000
- Charger: 1500