Angular To-Do App – Step by Step Lab

Goal: Build a To-Do App using Parent & Child Components with EventEmitter.

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1) Create Components
ng g c todo-input --standalone
ng g c todo-list --standalone

2) Parent Component (app.component.ts)
todos: { text: string; completed: boolean }[] = [];

addTodo(todo: string) {
  this.todos.push({ text: todo, completed: false });
}

deleteTodo(index: number) {
  this.todos.splice(index, 1);
}

3) Parent Template (app.html)
<app-todo-input (addTodo)="addTodo($event)"></app-todo-input>
<app-todo-list
  [todos]="todos"
  (deleteTodo)="deleteTodo($event)">
</app-todo-list>

4) Child Input Component
@Output() addTodo = new EventEmitter<string>();
add() {
  this.addTodo.emit(this.task);
}

5) Child List Component
@Input() todos = [];
@Output() deleteTodo = new EventEmitter<number>();

toggle(todo) {
  todo.completed = !todo.completed;
}

6) Bonus: Line Through
[style.textDecoration]="todo.completed ? 'line-through' : 'none'"
```