



**Ganpat
University**

॥ विद्यया समाजोत्कर्षः ॥

**Institute of
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PRACTICAL 12

❖ **Objective:**

To understand the framework of Angular, implement one-way, two-way bindings and structural directives (ngFor, ngIf and ngSwitch), wherever applicable.

❖ **Exercise:**

Develop an Angular application that will manage a to-do list. The user should be able to see the list of to-do items, check off items that are complete, create new to-do items and delete any to-do item.

✓ **todolist.component.html :**

```
<div class="container">

  <div class="waviy">
    <span style="--i:1">
      <h1>T</h1>
    </span>
    <span style="--i:2">
      <h1>O</h1>
    </span>
    <span style="--i:3">
      <h1>-</h1>
    </span>
    <span style="--i:4">
      <h1>D</h1>
    </span>
    <span style="--i:5">
      <h1>O</h1>
    </span>
    <span style="--i:14">
      <h1>=</h1>
    </span>
    <span style="--i:6">
      <h1>A</h1>
    </span>
  </div>
</div>
```

```

</span>
<span style="--i:7">
  <h1>P</h1>
</span>
<span style="--i:8">
  <h1>P</h1>
</span>
<span style="--i:9">
  <h1>L</h1>
</span>
<span style="--i:10">
  <h1>I</h1>
</span>
<span style="--i:11">
  <h1>C</h1>
</span>
<span style="--i:12">
  <h1>A</h1>
</span>
<span style="--i:13">
  <h1>T</h1>
</span>
<span style="--i:14">
  <h1>I</h1>
</span>
<span style="--i:15">
  <h1>O</h1>
</span>
<span style="--i:16">
  <h1>N</h1>
</span>
</div>

<hr>
<form (ngSubmit)="onSubmit(taskForm)" #taskForm="ngForm">
  <div class="form-group">
    <label for="task">
      <div class="waviy">
        <span style="--i:1">
          <h2>T</h2>
        </span>
        <span style="--i:2">
          <h2>a</h2>
        </span>
        <span style="--i:3">
          <h2>s</h2>
        </span>
        <span style="--i:4">
          <h2>k</h2>
        </span>
      </div>
    </label>

```

```

        <input type="text" class="form-control" id="task" placeholder="Enter task"
ngModel name="task" required>
        <small *ngIf="taskForm.invalid && taskForm.dirty" id="errorMessage"
class="form-text text-danger">Required
            field</small>
    </div>

    <button [disabled]="taskForm.invalid" id="submitButton" type="submit"
class="btn btn-primary" class="glow-on-hover">Submit</button>

</form>

<hr>

<table class="table">
    <thead>
        <tr>
            <th scope="col"><p class="animate-character">Task</p></th>
            <th scope="col"><p class="animate-character">Completed</p></th>
            <th scope="col"><p class="animate-character">Delete</p></th>
        </tr>
    </thead>
    <tbody>
        <tr *ngFor="let t of taskArray; index as i">
            <td class="taskforce">{{t.taskName}}</td>
            <td>
                <!-- Check Box Animation -->
                <div class="switch_box box_4">
                    <div class="input_wrapper">
                        <input type="checkbox" class="switch_4">
                        <svg class="is_checked" xmlns="http://www.w3.org/2000/svg"
viewBox="0 0 426.67 426.67">
                            <path d="M153.504 366.84c-8.657 0-17.323-3.303-23.927-
9.912L9.914 237.265c-13.218-13.218-13.218-34.645 0-47.863 13.218-13.218 34.645-13.218
47.863 0l95.727 95.727 215.39-215.387c13.218-13.214 34.65-13.218 47.86 0 13.22 13.218
13.22 34.65 0 47.863l177.435 356.928c-6.61 6.605-15.27 9.91-23.932 9.91z"/>
                            </svg>
                            <svg class="is_unchecked"
xmlns="http://www.w3.org/2000/svg" viewBox="0 0 212.982 212.982">
                                <path d="M131.804 106.49l75.936-75.935c6.99-6.99 6.99-
18.323 0-25.312-6.99-6.99-18.322-6.99-25.312 0l106.49 81.18 30.555 5.242c-6.99-6.99-
18.322-6.99-25.312 0-6.99 6.99-6.99 18.323 0 25.312l81.18 106.49 5.24 182.427c-6.99
6.99-6.99 18.323 0 25.312 6.99 6.99 18.322 6.99 25.312 0l106.49 131.8175.938
75.937c6.99 6.99 18.322 6.99 25.312 0 6.99-6.99 6.99-18.323 0-25.313l-75.936-75.936z"
fill-rule="evenodd" clip-rule="evenodd"/>
                                </svg>
                            </div>
                        </div>
                    </div>
                <!-- Check Box Animation -->
            </td>
            <td><button class="btn btn-danger btn-sm"
(click)="onDelete(i)">Delete</button></td>
        </tr>
    </tbody>
</table>

```

```

    </tbody>
  </table>
</div>

```

✓ **todolist.component.ts :**

```

import { Component, OnInit } from '@angular/core';
import { NgForm } from '@angular/forms';

@Component({
  selector: 'app-todolist',
  templateUrl: './todolist.component.html',
  styleUrls: ['./todolist.component.css']
})
export class TodolistComponent implements OnInit {
  taskArray = [{ taskName: 'Watch Anime', isCompleted: false }];

  constructor() { }

  ngOnInit(): void {
  }

  onSubmit(form: NgForm) {
    console.log(form);

    this.taskArray.push({
      taskName: form.controls['task'].value,
      isCompleted: false
    })

    form.reset();
  }

  onDelete(index: number) {
    console.log(index);

    this.taskArray.splice(index, 1);
  }

  onCheck(index: number) {
    console.log(this.taskArray);

    this.taskArray[index].isCompleted = !this.taskArray[index].isCompleted;
  }
}

```

✓ **Output :**

TO-DO ⇔ APPLICATION

TASK

Submit

TASK	COMPLETED	DELETE
Watch Anime	<input type="checkbox"/> ×	Delete
Watch ChainsawMan	<input type="checkbox"/> ×	Delete

TO-DO ⇔ APPLICATION

TASK

Submit

TASK	COMPLETED	DELETE
Watch Anime	<input type="checkbox"/> ×	Delete
Watch ChainsawMan	<input type="checkbox"/> ×	Delete
Watch Attack on Titan	<input type="checkbox"/> ×	Delete

TASK

TASK

COMPLETED

DELETE

Watch Anime



Delete

Watch ChainsawMan



Delete

Watch Attack on Titan



Delete

Watch One Piece



Delete

TASK

TASK

COMPLETED

DELETE

Watch Anime



Delete

Watch ChainsawMan



Delete

Watch Attack on Titan



Delete

Watch One Piece



Delete

TASK

TASK

COMPLETED

DELETE

Watch Anime



Delete

Watch ChainsawMan



Delete

Watch One Piece



Delete