

## Lesson 02 Demo 08

### Working with ng-repeat Directives

**Objective:** To work with directives

**Tools required:** Ubuntu, Visual Studio, and Node.js

**Prerequisites:** Knowledge of JavaScript, TypeScript, and Node

Steps to be followed:

1. Creating an HTML file for demonstrating the use of the ng-template directive
2. Adding code in the file
3. Launching angular development server

#### Step 1: Creating an HTML file for demonstrating the use of the ng-template directive

1.1 Open Visual Studio -> Open **New Terminal**

1.2 Create a **directory** -> Type **mkdir template**

1.3 Type in terminal-> **cd template**

The screenshot shows a VS Code editor with a project named 'ANGULAR DEMOS'. The Explorer sidebar on the left shows a folder named 'template' containing files: 'arrayexpression.html', 'ngrepeat.html', 'numberexpression.html', and 'jsonpost.html'. The main editor window displays the content of 'ngrepeat.html', which is an HTML file using the ng-repeat directive to iterate over an array of student names. The terminal window at the bottom shows the following commands and output:

```
PS F:\Angular demos> mkdir template

Directory: F:\Angular demos

Mode                LastWriteTime         Length Name
----                -
d-----          26-Jan-23   12:14 AM         template

PS F:\Angular demos> cd template
PS F:\Angular demos\template>
```

#### 1.4 Type `npm install -g @angular/cli`

```
F:\Angular demos\template> npm install -g @angular/cli
npm WARN idealTree:inquirer: still placeDep node_modules/@angular/cli rxjs@6.6.7 OK for: @angular-devkit/architect@0.1501.2 w
```

#### 1.5 Type `ng new ngtemplatedemo`. It will create a new angular project.

```
F:\Angular demos\template> ng new ngtemplatedemo
? Would you like to share pseudonymous usage data about this project with the Angular Team
at Google under Google's Privacy Policy at https://policies.google.com/privacy. For more
details and how to change this setting, see https://angular.io/analytics. Yes

Thank you for sharing pseudonymous usage data. Should you change your mind, the following
command will disable this feature entirely:

  ng analytics disable --global

Global setting: enabled
Local setting: No local workspace configuration file.
Effective status: enabled
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? CSS
CREATE ngtemplatedemo/angular.json (2740 bytes)
CREATE ngtemplatedemo/package.json (1045 bytes)
CREATE ngtemplatedemo/README.md (1068 bytes)
CREATE ngtemplatedemo/tsconfig.json (901 bytes)
CREATE ngtemplatedemo/.editorconfig (274 bytes)
CREATE ngtemplatedemo/.gitignore (548 bytes)
CREATE ngtemplatedemo/tsconfig.app.json (263 bytes)
CREATE ngtemplatedemo/tsconfig.spec.json (273 bytes)
CREATE ngtemplatedemo/.vscode/extensions.json (130 bytes)
CREATE ngtemplatedemo/.vscode/launch.json (474 bytes)
CREATE ngtemplatedemo/.vscode/tasks.json (938 bytes)
CREATE ngtemplatedemo/src/favicon.ico (948 bytes)
CREATE ngtemplatedemo/src/index.html (300 bytes)
CREATE ngtemplatedemo/src/main.ts (214 bytes)
CREATE ngtemplatedemo/src/styles.css (80 bytes)
CREATE ngtemplatedemo/src/assets/.gitkeep (0 bytes)
CREATE ngtemplatedemo/src/app/app-routing.module.ts (245 bytes)
CREATE ngtemplatedemo/src/app/app.module.ts (393 bytes)
CREATE ngtemplatedemo/src/app/app.component.html (23115 bytes)
CREATE ngtemplatedemo/src/app/app.component.spec.ts (1097 bytes)
CREATE ngtemplatedemo/src/app/app.component.ts (218 bytes)
CREATE ngtemplatedemo/src/app/app.component.css (0 bytes)
| Installing packages (npm)...
```

#### 1.6 Press enter if it asks for options

## 1.7 Type `cd ngtemplatedemo`

### Step 2: Adding code in the file

2.1 In `src/app.component.html`, add the below code:

```
<h1>ng-template & TemplateRef</h1>
```

```
.
```

```
<h2>Using the ngTemplateOutlet</h2>
```

```
<ng-template #sayHelloTemplate>
```

```
  <p> Say Hello</p>
```

```
</ng-template>
```

### Step 3: Launching angular development server

3.1 In the terminal, type `ng serve` and it will launch the angular application development server.

```
F:\Angular demos\template>cd ngtemplatedemo

F:\Angular demos\template\ngtemplatedemo>ng serve
? Would you like to share pseudonymous usage data about this project with the Angular team at Google under Google's Privacy Policy at https://policies.google.com/privacy. For details and how to change this setting, see https://angular.io/analytics. Yes

Thank you for sharing pseudonymous usage data. Should you change your mind, the following command will disable this feature entirely:

  ng analytics disable

Global setting: enabled
Local setting: enabled
Effective status: enabled
```

```
F:\Angular demos\template>cd ngtemplatedemo
F:\Angular demos\template\ngtemplatedemo>ng serve
Would you like to share pseudonymous usage data about this project with the Angular Team
at Google under Google's Privacy Policy at https://policies.google.com/privacy. For more
details and how to change this setting, see https://angular.io/analytics. Yes
Thank you for sharing pseudonymous usage data. Should you change your mind, the following
command will disable this feature entirely:
  ng analytics disable
Global setting: enabled
Local setting: enabled
Effective status: enabled
✔ Browser application bundle generation complete.

Initial Chunk Files | Names          | Raw Size
vendor.js           | vendor        | 2.04 MB
polyfills.js        | polyfills     | 314.28 kB
styles.css, styles.js | styles       | 209.41 kB
main.js             | main          | 6.62 kB
runtime.js          | runtime       | 6.53 kB
| Initial Total | 2.56 MB

Build at: 2023-01-25T19:07:09.324Z - Hash: 3f3813617741cc3f - Time: 37543ms
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **

✔ Compiled successfully.
```

3.2 Go to <http://localhost:4200/>, and the below output is shown on the browser

