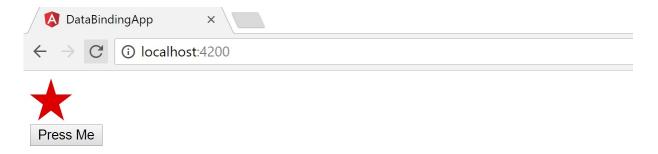
The following exercises are related to the use of Angular.

1. Create a git repository for your answers to this problem sheet. Push the repository to GitHub. Make a commit and push it to GitHub after each exercise.

```
Solution:
mkdir answers-TypeScript
-----
cd answers-TypeScript
echo > README.md
______
git init
Initialized empty Git repository in /Users/martin/answers-TypeScript/.git/
_____
git add .
git commit -m "Empty first commit."
[master (root-commit) 6583cf6] Empty first commit.
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README.md
git remote add origin https://github.com/mkenirons/WHATEVER.git
You will need to add the path to your GitHub Repository here
_____
git push -u origin master
Add you file to GitHub (remote repository)
```

- 2. Create a new Angular application entitled data-binding-app. Use the following link: https://cli.angular.io/
  - (a) Update app.component.html so that it looks as follows:



### The Number of times the button has been pressed is: 0

NOTE: For the Star image use the following img tag:

<img src="https://upload.wikimedia.org/wikipedia/commons/3/34/Red\_star.svg" height</pre>

(b) Each time the user presses the button the "The Number of times the button has been pressed is: " should be increased by 1. If the user pressed the button 3 times the view should look as follows:



# The Number of times the button has been pressed is: 3

(c) When the user double-clicks on the star, the view should show a h2 element ("Look at the star") as follows:





### Look at the star

Press Me

# The Number of times the button has been pressed is: 0

- (d) If the user double-clicks on the star again, the h4 element ("Look at the star") should not be shown.
- (e) Each time the user double-clicks on the star, if the h4 element ("Look at the star") is shown it should be hidden, and if it is hidden it should be shown.

```
npm install -g @angular/cli
ng new data-binding-app
cd data-binding-app
ng serve

//app.component.ts

export class AppComponent {
   title = 'app';
   numberOfTimes = 0;
   hidden = false;

   count() {
      this.numberOfTimes++;
   }

   show() {
      if(this.hidden == true)
```

```
{
    this.hidden = false;
}
else{
    this.hidden = true;
}
}
//app.component.html
<img src="https://upload.wikimedia.org/wikipedia/commons/3/34/Red_star.svg"
height="42" width="42"(dblclick)=show()>
<br>
<h2 [hidden]="hidden">Look at the star</h2>
<br>
<br/>
<br/>
<br/>
<br/>
<br/>
<br/>
<br/>
<h2>The Number of times the button has been pressed is: {{number}}</h2></h2>
```

- 3. Add a new component to our application called listcomponent and get its template contents to display:
  - (a) Get our new component to display a list of the last four presidents of Ireland in an unordered list as follows:



- Higgins
- McAleese
- Robinson
- Hillery
- i. The list can be stored in an array as follows:
   presidents: string[] = ["Higgins", "McAleese", "Robinson", "Hillery"];
- ii. If more presidents are added to the list, the view should not have to be updated. E.g.

```
presidents: string[] = ["Higgins", "McAleese", "Robinson", "Hillery", "O Dala
```

(b) Update the list of president to include a name and term attribute

#### Problem Sheet:Angular - Data Binding

```
presidents: any[] =
  [{name: "Higgins", term:"2011-"},
  {name: "McAleese", term:"1997-2011"},
  {name: "Robinson", term:"1990-1997"},
  {name: "Hillery", term:"1976-1990"},
  {name: "O Dalaigh", term:"1974-1976"}];
```

(c) Update the view so that it now looks as follows:



- Higgins 2011-
- McAleese 1997-2011
- Robinson 1990-1997
- Hillery 1976-1990
- O Dalaigh 1974-1976

```
Solution:

    {{p.name}} {{p.term}}
```