

## PROG2002 Web Development II

### Exam Samples - Term 4 2022

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Note:

- These are only samples of type of questions might appear on the exam
  - No answers provided to these samples.
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#### Question 1:

The following is a TypeScript function header:

```
function getProperty(address:string, agentID:number) : number { ... }
```

How to specify a variable or parameter that could be assigned functions of this type. Select the correct answer:

- a. `function f: (n:string, agentID:number) : number { ... }`
- b. `let f: (n:string, agentID:number) : number { ... }`
- c. `let f: (n:string, agentID:number) => number;`
- d. `function f: (n:string, agentID:number) : st number ring;`

#### Question 2:

Which one of the following template expressions is considered as interpolation?

- a. `{{expression}}`
- b. `[target] = "expression"`
- c. `*ngIf="statement"`
- d. `*ngFor="statement"`

#### Question 3:

Explain the difference between Promises and Observables and why we should use Observable?

#### Question 4:

Explain using your own words, what is the difference between Angular modules and Angular components? And how they are related?

#### Question 5:

Suppose we implement a checkbox in an Angular template as follows:

```
<label for="Check1">Have you found a job?</label>
<input type="checkbox" id="Check1" required [(ngModel)]="foundJob"
name="found"/>
```

What needs to be declared in the component class? Write down the declaration.

Suppose we wanted to use the state of the checkbox answer elsewhere in the template to display one of the following messages:

Staff found a job: true  
or  
Staff found a job: false

How would that be coded in the template?

**Question 6:**

The following code to read a file.

```
filesystem.readAsText(this.filesystem.datadirectory, "saveddata.dat")
.then(
  (txt) => { process(txt); },
  (err) => { error(err); }
);
```

What does the readAsText() function return? What happens if the file does not exist?