

ASSIGNMENT # 3

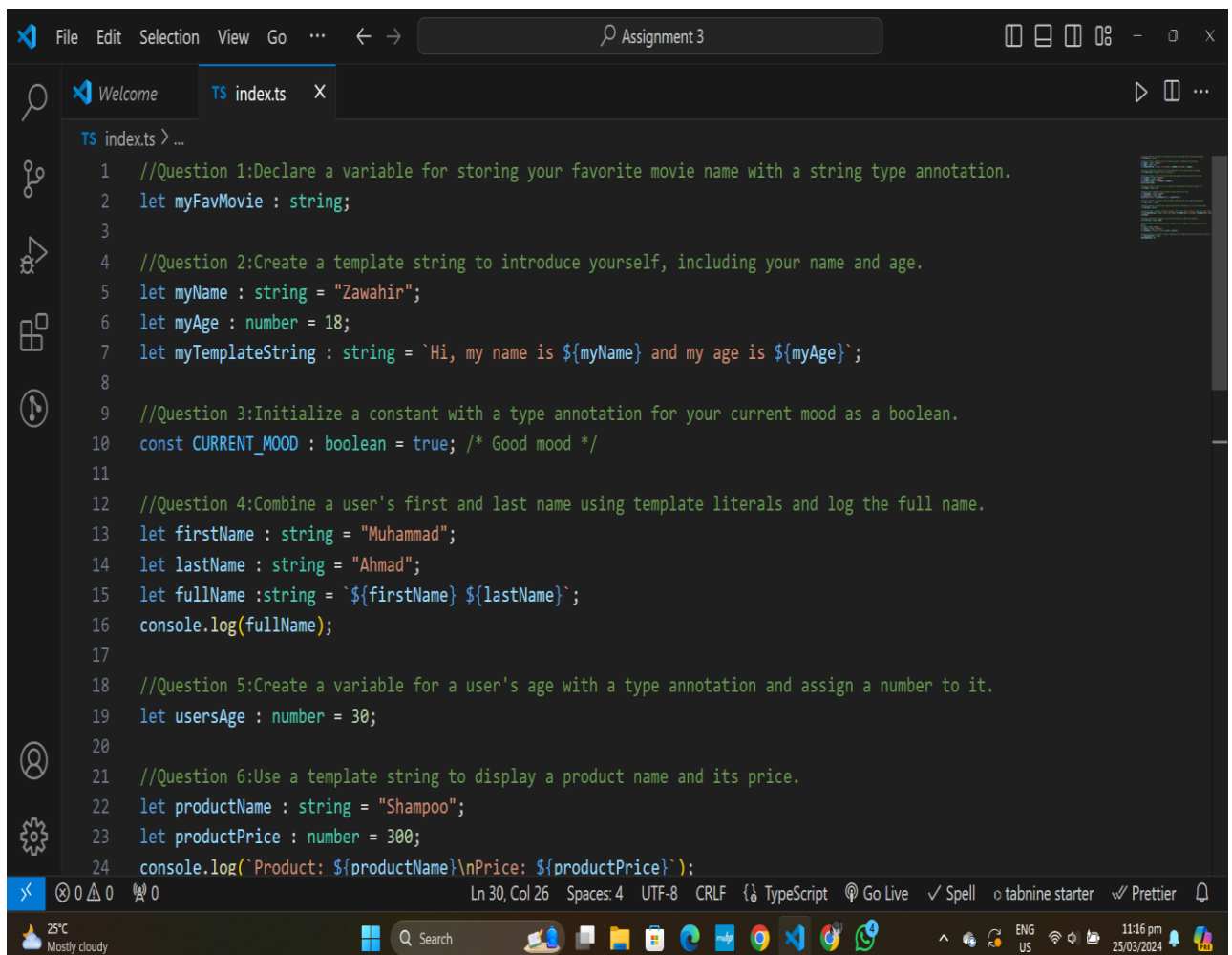
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Batch: 57

Course Name: Certified Cloud Applied Generative AI Engineer

CODE



```
TS index.ts > ...
1 //Question 1:Declare a variable for storing your favorite movie name with a string type annotation.
2 let myFavMovie : string;
3
4 //Question 2:Create a template string to introduce yourself, including your name and age.
5 let myName : string = "Zawahir";
6 let myAge : number = 18;
7 let myTemplateString : string = `Hi, my name is ${myName} and my age is ${myAge}`;
8
9 //Question 3:Initialize a constant with a type annotation for your current mood as a boolean.
10 const CURRENT_MOOD : boolean = true; /* Good mood */
11
12 //Question 4:Combine a user's first and last name using template literals and log the full name.
13 let firstName : string = "Muhammad";
14 let lastName : string = "Ahmad";
15 let fullName :string = `${firstName} ${lastName}`;
16 console.log(fullName);
17
18 //Question 5:Create a variable for a user's age with a type annotation and assign a number to it.
19 let usersAge : number = 30;
20
21 //Question 6:Use a template string to display a product name and its price.
22 let productName : string = "Shampoo";
23 let productPrice : number = 300;
24 console.log(`Product: ${productName}\nPrice: ${productPrice}`);
```

The screenshot shows the Visual Studio Code editor with a file named 'index.ts' open. The code contains several TypeScript declarations and assignments, each preceded by a comment indicating a question number. The code is as follows:

```
26 //Question 7:Declare a variable to store the number of pets you have with a number type annotation.
27 let numberOfMyPets : number;
28
29 //Question 8:Declare a variable with a boolean type annotation indicating if it is your birthday today.
30 let isBirthday : boolean;
31
32 //Question 9:Create a template string that includes a user's first name, last name, and age with proper labels.
33 let usersTemplateString : string = `User's First Name: ${firstName}\nUser's Last Name: ${lastName}\nUser's Age:
34   ${usersAge}`;
35
36 //Question 10:Initialize a constant to hold your birth year with a number type annotation.
37 const BIRTH_YEAR : number = 2005;
38
39 //Question 11:Write a line of code that uses a template string to combine a city and country into a full
40 //address.
41 let city : string = "Lahore";
42 let country : string = "Pakistan";
43 let fullAddress : string = `I live in ${city}, ${country}`;
44
45 //Question 12:Declare a variable for today's temperature with a number type annotation and assign a value to it.
46 let todaysTemperature : number;
47 todaysTemperature = 37;
```

The status bar at the bottom indicates the current position is Line 30, Column 26, with 4 spaces, UTF-8 encoding, and CRLF line endings. It also shows various extensions like TypeScript, Go Live, Spell, and Prettier are active.

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OUTPUT:-

The screenshot shows the Visual Studio Code terminal window with the following output:

```
Microsoft Windows [Version 10.0.22631.3296]
(c) Microsoft Corporation. All rights reserved.

D:\Coding\Typescript\Batch 57\Assignments\Assignment 3>tsc index.ts

D:\Coding\Typescript\Batch 57\Assignments\Assignment 3>node index.js
Muhammad Ahmad
Product: Shampoo
Price: 300

D:\Coding\Typescript\Batch 57\Assignments\Assignment 3>
```

The terminal output shows the result of compiling and running the TypeScript code. The output is a string 'Muhammad Ahmad', a string 'Product: Shampoo', and a number 'Price: 300'. The terminal prompt is 'D:\Coding\Typescript\Batch 57\Assignments\Assignment 3>'.