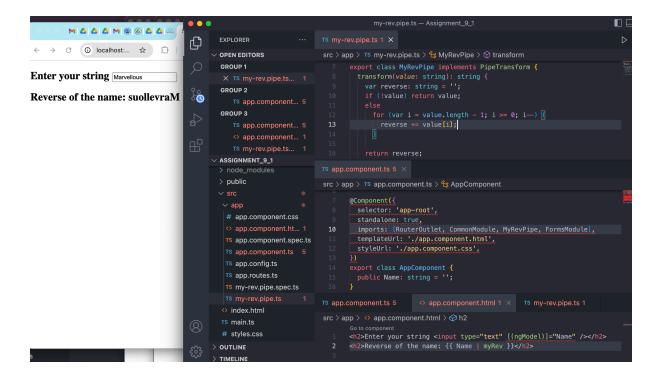
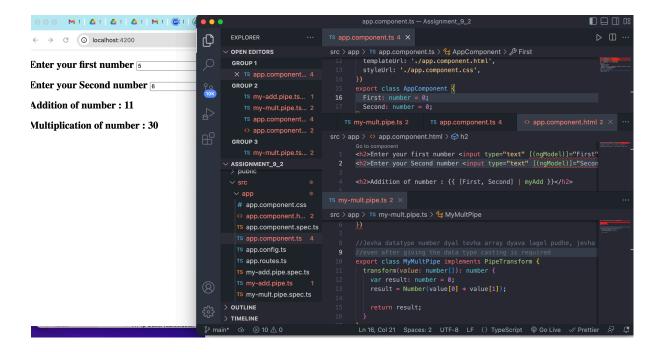
Question 1:



Question 2:



Question 3:

```
EXPLORER
                                                                                 TS marvellous-chk.pipe.ts 2

∨ OPEN EDITORS

                          src > app > ↔ app.component.html > ...
                                 <h2>Assignment 9_3</h2>
     TS app.compo... 4
                                <h2>Enter the number</h2>
     TS marvellous-... 2
                                 <input type="text" [(ngModel)]="Num" />

✓ ASSIGNMENT_9_3

                                 <h2>Enter the type you want to check from dropdown</h2>
 > .angular
                                 <select [(ngModel)]="Param">
  > .vscode
                                   <option value="Prime">Prime</option>
                                  <option value="Perfect">Perfect</option>
 > public
                                   <option value="Even">Even</option>
                                   <option value="Odd">Odd</option>
  ∨ app
                                 <h2>The value you entered is: {{ Num | marvellousChk : Param }}</h2>
  # app.component.css
   TS app.component.sp...
   TS app.config.ts
   TS app.routes.ts
   TS marvellous-chk.pip...
  o index.html
  TS main.ts
  # styles.css
 .editorconfia
 .gitignore
 {} angular.json
 {} package-lock.json
 {} package.json
 ③ README.md
 tsconfig ann ison
```

```
EXPLORER
                           ⇔ app.component.html 2
                                                       TS app.component.ts 4 X TS marvellous-chk.pipe.ts 2
                           src > app > TS app.component.ts > ♣ AppComponent > 戶 Num
V OPEN EDITORS
                             import { Component } from '@angular/core';
                                   import { RouterOutlet } from '@angular/router';
import { FormsModule } from '@angular/forms';
     TS marvellous-... 2
                                 import { CommonModule } from '@angular/common';

✓ ASSIGNMENT_9_3

                                  import { MarvellousChkPipe } from './marvellous-chk.pipe';
  > .angular
                                  @Component({
 > .vscode
                                    selector: 'app-root',
                                    standalone: true,
 > public
                                    imports: [RouterOutlet, FormsModule, CommonModule, MarvellousChkPipe],
 ∨ src
                                    templateUrl: './app.component.html',
                                     styleUrl: './app.component.css',

√ app

    # app.component.css
                                   export class AppComponent [{
   ⇔ app.compone... 2
                                   public Num: string = '';
                                    public Param: string = '';
   TS app.component.sp...
   TS app.config.ts
   TS app.routes.ts
   TS marvellous-chk.pip...
   TS marvellous-ch... 2
  o index.html
  TS main.ts
  # styles.css
 .editorconfig
 .gitignore
 {} angular.json
 {} package-lock.json
 {} package.json

 README.md

 🚯 tsconfid ann ison
```

```
EXPLORER
C
                                                     src > app > ™ marvellous-chk.pipe.ts > ♣ MarvellousChkPipe > ♦ transform
          ∨ OPEN EDITORS
                                                                     var num: number = Number(value);
if (isNaN(num)) {
 S)
                                                                       return 'Invalid number';
}
         V ASSIGNMENT 9 3
            > .angular
            > .vscode
                                                                     if (param === 'Prime') {
  if (num < 2) {
    return 'Not Prime';</pre>
           > node_free

> public

> src
                                                                         for (var i = 2; i <= num - 1; i++) {
  if (num % i === 0) {
    return 'Not Prime';</pre>
              # app.component.css
                                                                            return 'Not Prime';
               TS app.component.sp...
                                                                        return ' Prime';
} else if (param ==== 'Perfect') {
               TS app.config.ts
                                                                          var divisors: number = 0;
for (var i = 1; i < num; i++) {
   if (num % i === 0) {
      divisors = divisors + i;
   }
}</pre>
              TS app.routes.ts 25
TS marvellous-chk.pip... 26
TS marvellous-ch... 2
27
28
             index.html
                                                                       | }
    if (num === divisors) {
        return 'Perfect';
    } else return 'Not Perfect';
} else if (param == 'Even') {
        return num % 2 === 0 ? 'Even' : 'Not Even';
} else if (param == 'Odd') {
        return num % 2 !== 0 ? 'Odd' : 'Not Odd';
}
return 'Invalid Teput';
             TS main.ts
             # styles.css
           .editorconfig
            gitignore
           {} angular.json
           {} package-lock.json
           {} package.json

 README.md

                                                                         return 'Invalid Input';
         {} tsconfig ann ison
> OUTLINE
```

Output:



Assignment 9_3

Enter the number



Enter the type you want to check from dropdown



The value you entered is: Invalid Input



Assignment 9_3

Enter the number

20		

Enter the type you want to check from dropdown



The value you entered is: Not Prime



Assignment 9_3

Enter the number



Enter the type you want to check from dropdown

Perfect ~

The value you entered is: Perfect



Assignment 9_3

Enter the number



Enter the type you want to check from dropdown



The value you entered is: Even



Assignment 9_3

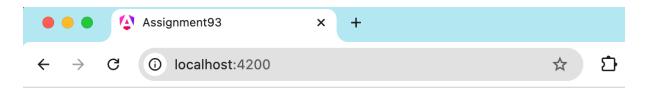
Enter the number



Enter the type you want to check from dropdown



The value you entered is: Prime



Assignment 9_3

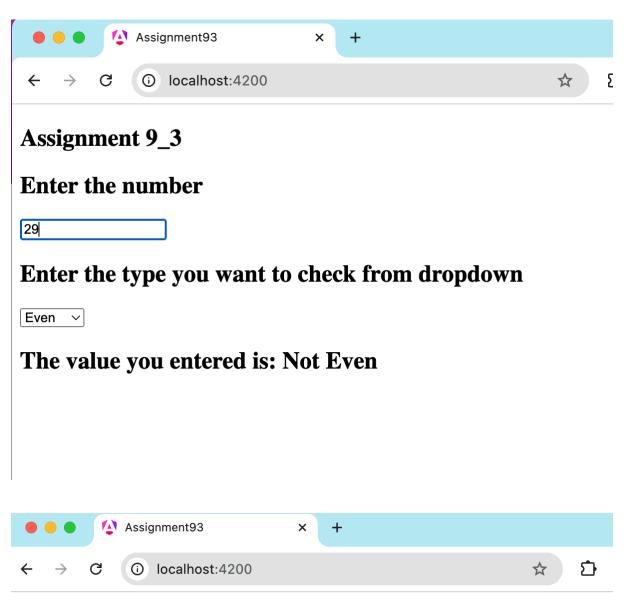
Enter the number

11

Enter the type you want to check from dropdown

Perfect ~

The value you entered is: Not Perfect



Assignment 9_3

Enter the number

29

Enter the type you want to check from dropdown

Odd ~

The value you entered is: Odd

