Demosteps:

1. Create a new Pipe named **AlphaCase** with the below code using the below command.

1. ng generate pipe message/alphaCase

2. Add the below code to **alpha-case.pipe.ts** file

1. import { Pipe, PipeTransform } from '@angular/core';
2. @Pipe({
3. name: 'alphaCase'
4. })
5. export class AlphaCasePipe implements PipeTransform {
6. transform(value: any, args?: any): any {
7. if (args == 'U') {
8. return value.toUpperCase();
9. }
10. else if (args == 'L') {
11. return value.toLowerCase();
12. }
13. else if (args == 'T') {
14. var i = 0;
15. var titleCase = '';
16. value = value.toLowerCase();
17. var temp = value.split(' ');
18. for (var ele of temp) {
19. ele = ele.charAt(0).toUpperCase() + ele.slice(1);
20. titleCase=titleCase+' '+ele;
21. }
22. console.log(titleCase)
23. return titleCase;
24. }
25. else {
26. return value;
27. }
28. }
29. }

3. Modify the code in **message.component.html**file

1. <div \*ngIf="val" id="msgText">
2. {{msg | alphaCase : 'T'}}
3. </div>

4. Enter the below code in **alpha-case.pipe.spec.ts**file

1. import { AlphaCasePipe } from './alpha-case.pipe';
2. describe('AlphaCasePipe', () => {
3. let pipe:any;
4. beforeEach(() => {
5. pipe = new AlphaCasePipe();
6. });
7. it('create an instance', () => {
8. expect(pipe).toBeTruthy();
9. });
10. it('Transform to UpperCase',()=>{
11. let testInput = 'mY iNfY';
12. expect(pipe.transform(testInput,'U')).toMatch('MY INFY');
13. });
14. it('Transform to LowerCase',()=>{
15. let testInput = 'mY iNfY';
16. expect(pipe.transform(testInput,'L')).toMatch('my infy');
17. });
18. it('Transform to TitleCase',()=>{
19. let testInput = 'mY iNfY';
20. expect(pipe.transform(testInput,'T')).toMatch('My Infy');
21. })
22. });

5. Modify the code in **app.module.ts**file by importing the pipe and adding it in the declaration section as shown below.

1. import { BrowserModule } from '@angular/platform-browser';
2. import { NgModule } from '@angular/core';
3. import { AppRoutingModule } from './app-routing.module';
4. import { AppComponent } from './app.component';
5. import { MessageComponent } from './message/message.component';
6. import { AlphaCasePipe } from './message/alpha-case.pipe';
7. @NgModule({
8. declarations: [
9. AppComponent,
10. MessageComponent,
11. AlphaCasePipe
12. ],
13. imports: [
14. BrowserModule,
15. AppRoutingModule
16. ],
17. providers: [],
18. bootstrap: [AppComponent]
19. })
20. export class AppModule { }

6. Run the test cases by using the command **ng test**, and observe that test cases created are being passed.

**Note:**In Angular testing, you have to mention the dependencies everywhere. For example, if the pipe is being used in a component, then the pipe should be declared in the declarations section of the components spec file. And if that component is used in app.component.html, the pipe should be added to the declarations of the app.component.spec.ts file as well. Else the test cases will fail.