Observable:

Observable are **wrapper** around a certain object, where you can **listen for changes on that object**, and **whenever that object changes it emits an event** to which **we can subscribe to and then react.**

RouterModule is a separate module in angular that provides required services and directives to use routing and navigation in angular application.

Routes defines and array of roots that map a path to a component.

**d. Handling "Page Not Found"**: Find the mapping.

{ path: '\*\*', component: PageNotFoundComponent }

If we access path that has no mapping with any component, then to handle **404 Not Found** error, we use a path**(\*\*)** that is mapped with any component to show desired message

4. Location

Location is a service that is used to interact with browser URL for example navigating back and forward. Locationhas methods such as go(), forward() and back() etc. To use Location service, find the following points.   
**1. Import Location**: Import Location in component.

import { Location } from '@angular/common';

**2. Location Instance**: Make Location available in component using dependency injection with constructor.

constructor(private location: Location) {

}

**3. Navigate Back**: If we want to go back, then we will call back() method as follows.

this.location.back();

**QueryParams:**

**Passing:**

router.navigate([], {queryParams: {'book-no': 1234}})

**passing in routerLink directive:**

<a [routerLink]="['']" [queryParams]="{'book-no': 100}"

**Extracting from router:**

router.routerState.queryParams.subscribe({

(queryParam: any) => this.param = queryParam['analytics']

});

**Extracting from route:**

route.snapshot.queryParams["param1"];