

Routing

General term of **Routing** is the process of selecting path.

We use routing to separate different parts of our app, generally (but not always) by using the URL to denote our location. Angular 2's router is super easy to use, and below I'll share some of the basics.

Create a new project named `routingDemo` use following command.

```
ng new routingDemo
```

Now create two components `Home` and `About` inside *components* directory using following commands.

```
ng g c Home
```

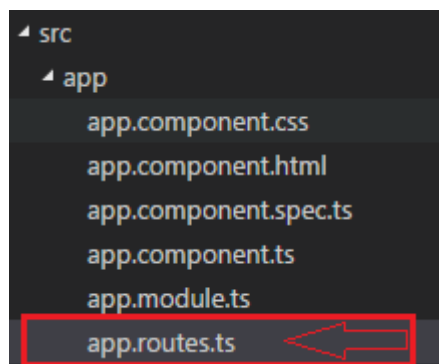
```
ng g c About
```

```
ng g c navigation
```

NOTE: To know about How to create component, see my tutorial on Component.

After creating components you are ready to learn routing in angular 2.

Step 1: Create a new file named ***app.routes.ts*** inside the ***app*** directory.



Now open the **app.routes.ts** file. Write the following code

```
import { Routes,RouterModule } from '@angular/router';
import { HomeComponent } from '../components/home/home.component';
import { AboutComponent } from '../components/about/about.component'

const routes : Routes = [
  { path: 'Home', component: HomeComponent },
  { path: 'About', component: AboutComponent },
];

export const InstallPath=RouterModule.forRoot(routes);
```

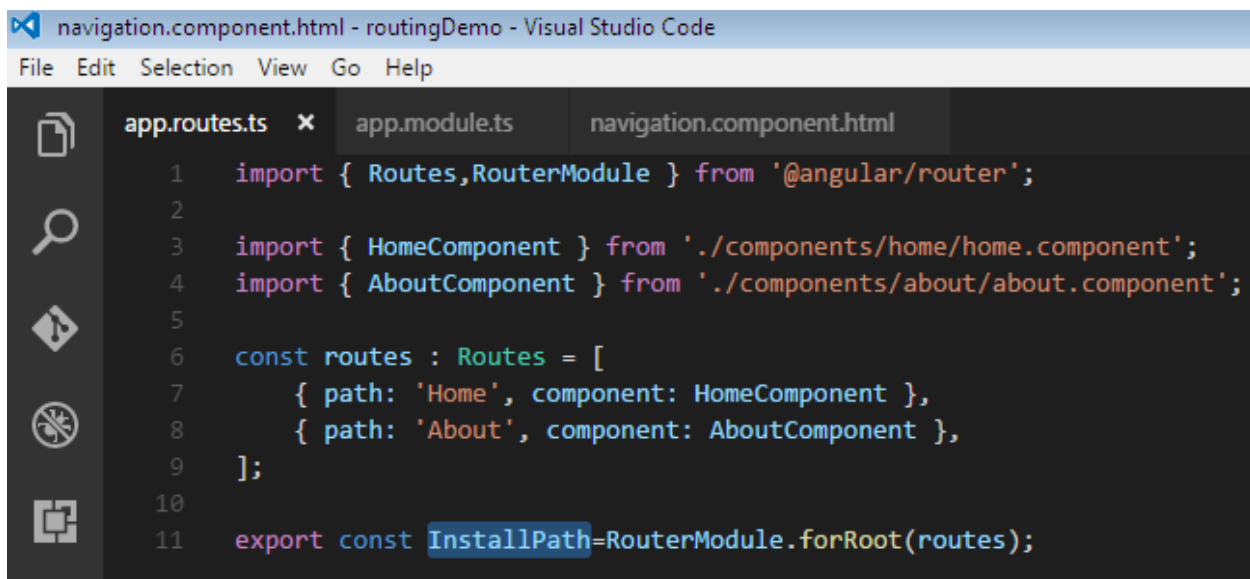
Import the Routes
and RouterModule

Import the
HomeComponent and
AboutComponent.

Describe paths
for component

forRoot creates a module that contains all
the directives, the given routes, and the
router service itself.

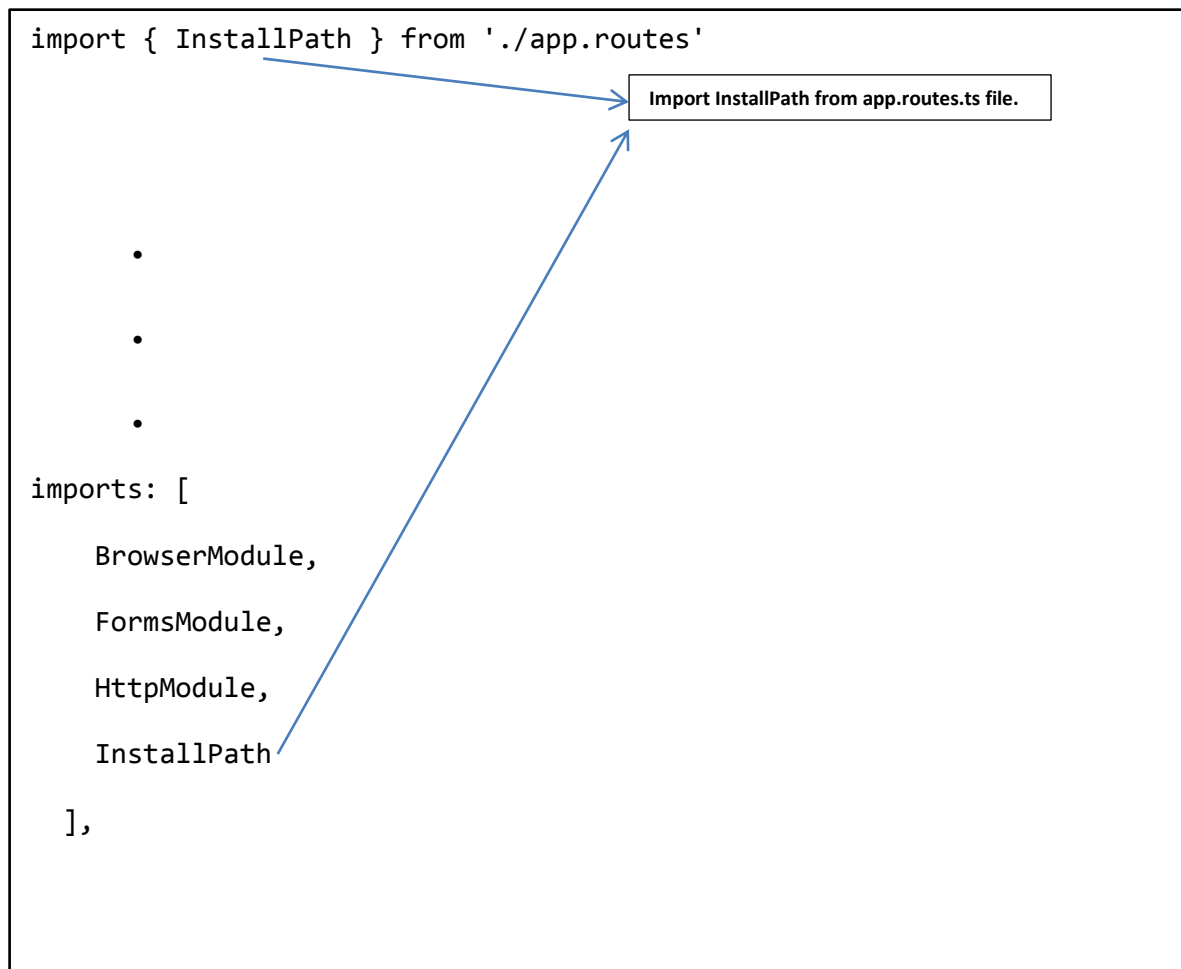
After adding code your **app.routes.ts**



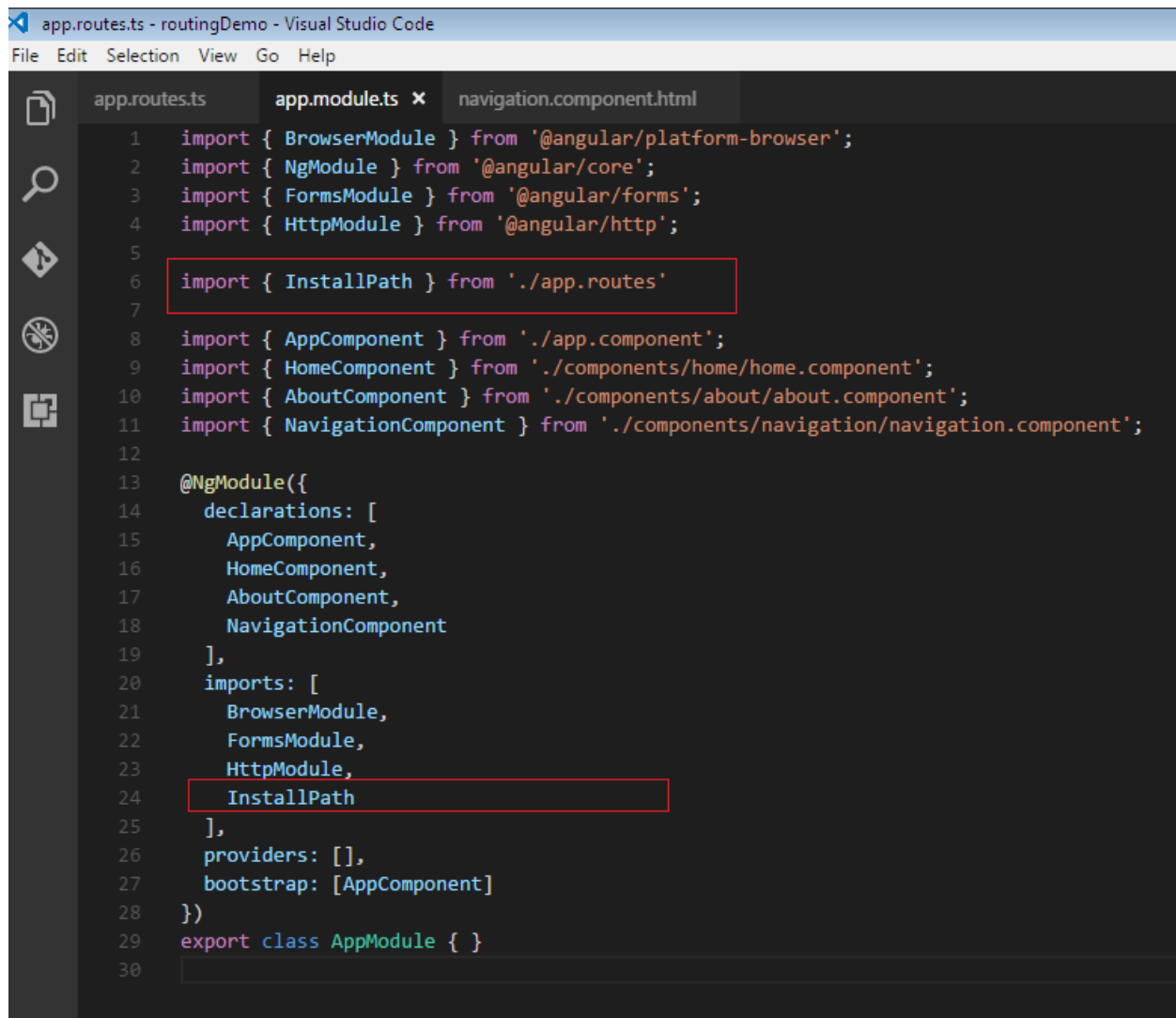
The screenshot shows the Visual Studio Code editor interface. The top bar indicates the file is 'navigation.component.html - routingDemo - Visual Studio Code'. The menu bar includes 'File', 'Edit', 'Selection', 'View', 'Go', and 'Help'. The editor has three tabs: 'app.routes.ts' (active), 'app.module.ts', and 'navigation.component.html'. The code in 'app.routes.ts' is as follows:

```
1  import { Routes,RouterModule } from '@angular/router';
2
3  import { HomeComponent } from '../components/home/home.component';
4  import { AboutComponent } from '../components/about/about.component';
5
6  const routes : Routes = [
7    { path: 'Home', component: HomeComponent },
8    { path: 'About', component: AboutComponent },
9  ];
10
11  export const InstallPath=RouterModule.forRoot(routes);
```

Step 2: Now open ***app.module.ts***



After adding code your ***app.module.ts***



```
app.routes.ts - routingDemo - Visual Studio Code
File Edit Selection View Go Help

app.routes.ts  app.module.ts x  navigation.component.html

1  import { BrowserModule } from '@angular/platform-browser';
2  import { NgModule } from '@angular/core';
3  import { FormsModule } from '@angular/forms';
4  import { HttpClientModule } from '@angular/http';
5
6  import { InstallPath } from './app.routes'
7
8  import { AppComponent } from './app.component';
9  import { HomeComponent } from './components/home/home.component';
10 import { AboutComponent } from './components/about/about.component';
11 import { NavigationComponent } from './components/navigation/navigation.component';
12
13 @NgModule({
14   declarations: [
15     AppComponent,
16     HomeComponent,
17     AboutComponent,
18     NavigationComponent
19   ],
20   imports: [
21     BrowserModule,
22     FormsModule,
23     HttpClientModule,
24     InstallPath
25   ],
26   providers: [],
27   bootstrap: [AppComponent]
28 })
29 export class AppModule { }
30
```

Step 3: Open ***navigation.component.html***

Add following code

```
<div>

<a [routerLink]="['Home']">Home</a> | |
<a [routerLink]="['About']">About Us</a>

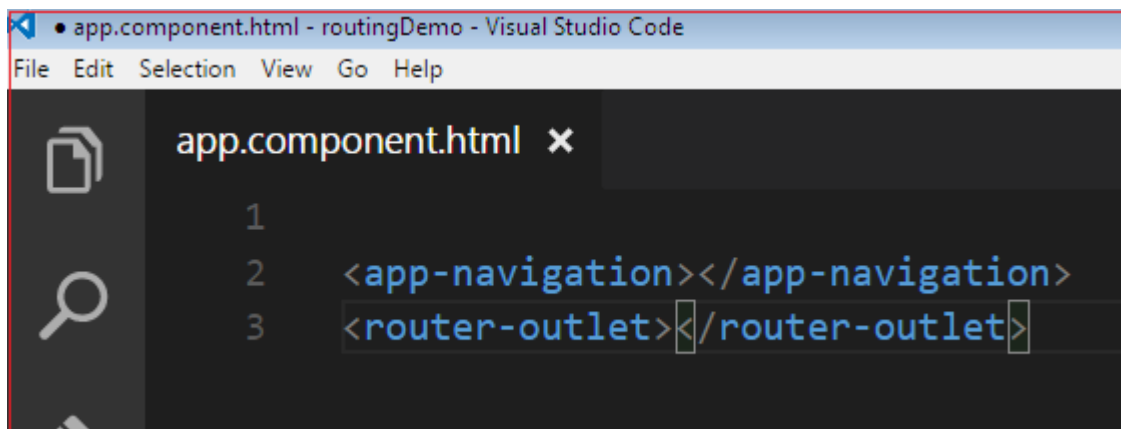
</div>
```

Step 4: Open *app.component.html* write the following code.

```
<app-navigation></app-navigation>  
<router-outlet></router-outlet>
```

Call `<app-navigation></app-navigation>` selector,
and write `<router-outlet></router-outlet>` to render your component after
clicking link.

After adding this code your *app.component.html* file look likes



Now run you project.

Note: If you don't know how to create and run angular 2 project don't worry, just
read my tutorial on [My First Angular 2 Program](#). Its easy...

Child Routing

After creating routing you are ready to learn child routing. In child routing we will create two new components. `AboutMe` and `AboutCompany`.

`ng g c AboutMe`

`ng g c AboutCompany`

Step 1: Open ***app.routes.ts*** file. And import newly created components class.

```
import { AboutMeComponent } from './components/about-me/about-me.component';  
  
import { AboutCompanyComponent } from './components/about-company/about-company.component';
```

Step 2: Replace following code with `const routes = [...];`

```
const routes : Routes = [  
  { path: 'Home', component: HomeComponent },  
  {  
    path: 'About', component: AboutComponent,  
    children : [  
      {path : '',component :AboutCompanyComponent},  
      {path : 'me',component :AboutMeComponent}  
    ]  
  },  
];
```

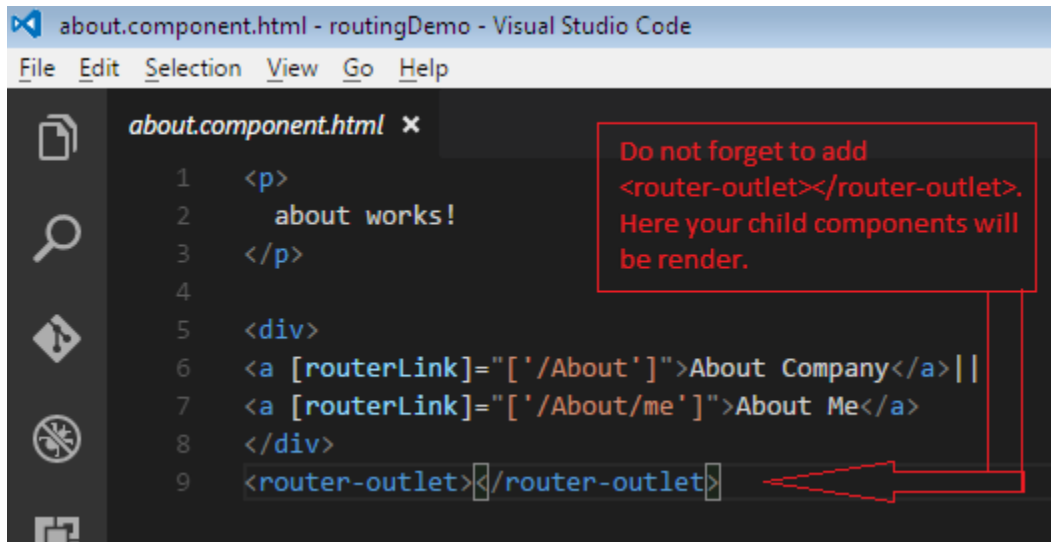
Complete code of ***app.routes.ts***

```
app.routes.ts x
1  import { Routes,RouterModule } from '@angular/router';
2
3  import { HomeComponent } from './components/home/home.component';
4  import { AboutComponent } from './components/about/about.component';
5  import { AboutMeComponent } from './components/about-me/about-me.component';
6  import { AboutCompanyComponent } from './components/about-company/about-company.component';
7
8  const routes : Routes = [
9      { path: 'Home', component: HomeComponent },
10
11      {
12          path: 'About', component: AboutComponent,
13          children : [
14              {path : '',component :AboutCompanyComponent},
15              {path : 'me',component :AboutMeComponent}
16          ]
17      },
18  ];
19
20  export const InstallPath=RouterModule.forRoot(routes);
```

Step 3: Now open ***about.component.html*** and add write following code.

```
<div>
<a [routerLink]="['/About']">About Company</a>||
<a [routerLink]="['/About/me']">About Me</a>
</div>
<router-outlet></router-outlet>
```

Complete code of ***about.component.html***



```
about.component.html x
1 <p>
2   about works!
3 </p>
4
5 <div>
6   <a [routerLink]="['/About']">About Company</a> ||
7   <a [routerLink]="['/About/me']">About Me</a>
8 </div>
9 <router-outlet></router-outlet>
```

Do not forget to add
<router-outlet></router-outlet>.
Here your child components will
be render.

Now go to browser and click on **About**. You will see following view.

