Working with Angular Services

```
app.component.css
.container {
margin-top: 30px;
app.component.html
div class="container">
 <div class="row">
  <div class="col-xs-12 col-md-8 col-md-offset-2">
   <app-new-account></app-new-account>
   <hr>
   <app-account
    *ngFor="let acc of accounts; let i = index"
    [account]="acc"
    [id]="i"></app-account>
  </div>
 </div>
</div>
app.component.ts
import { Component, OnInit } from '@angular/core';
import { AccountsService } from './accounts.service';
@Component({
 selector: 'app-root',
 templateUrl: './app.component.html',
 styleUrls: ['./app.component.css']
})
```

```
export class AppComponent implements OnInit {
 accounts: {name: string, status: string}[] = [];
 constructor(private accountsService: AccountsService) {}
ngOnInit() {
  this.accounts = this.accountsService.accounts;
app.module.ts
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import { FormsModule } from '@angular/forms';
import { AppComponent } from './app.component';
import { AccountComponent } from './account/account.component';
import { NewAccountComponent } from './new-account/new-account.component';
import { AccountsService } from './accounts.service';
import { LoggingService } from './logging.service';
@NgModule({
 declarations: [
  AppComponent,
 AccountComponent,
  NewAccountComponent
 ],
 imports: [
  BrowserModule,
  FormsModule,
 providers: [AccountsService, LoggingService],
```

```
bootstrap: [AppComponent]
export class AppModule { }
account.component.css
.row {
 border: 1px solid #ccc;
 margin: 10px 0;
 padding: 10px 0;
account.component.html
<div class="row">
 <div class="col-xs-12 col-md-8 col-md-offset-2">
  <h5>{{ account.name }}</h5>
  <hr>
  This account is {{ account.status }}
  <button class="btn btn-default" (click)="onSetTo('active')">Set to 'active'</button>
  <button class="btn btn-default" (click)="onSetTo('inactive')">Set to 'inactive'</
button>
  <button class="btn btn-default" (click)="onSetTo('unknown')">Set to 'unknown'</
button>
 </div>
</div>
account.component.ts
import { Component, Input } from '@angular/core';
import { LoggingService } from '../logging.service';
import { AccountsService } from '../accounts.service';
```

```
@Component({
 selector: 'app-account',
 templateUrl: './account.component.html',
 styleUrls: ['./account.component.css'],
 // providers: [LoggingService]
})
export class AccountComponent {
 @Input() account: {name: string, status: string};
 @Input() id: number;
 constructor(private loggingService: LoggingService,
       private accountsService: AccountsService) {}
 onSetTo(status: string) {
  this.accountsService.updateStatus(this.id, status);
  // this.loggingService.logStatusChange(status);
  this.accountsService.statusUpdated.emit(status);
new-account.component.html
<div class="row">
 <div class="col-xs-12 col-md-8 col-md-offset-2">
  <div class="form-group">
   <label>Account Name/label>
   <input
    type="text"
    class="form-control"
    #accountName>
  </div>
  <div class="form-group">
   <select class="form-control" #status>
    <option value="active">Active</option>
    <option value="inactive">Inactive</option>
    <option value="hidden">Hidden</option>
```

```
</select>
  </div>
  <but
   class="btn btn-primary"
   (click)="onCreateAccount(accountName.value, status.value)">
   Add Account
  </button>
 </div>
</div>
new-account.component.ts
import { Component } from '@angular/core';
import { LoggingService } from '../logging.service';
import { AccountsService } from '../accounts.service';
@Component({
 selector: 'app-new-account',
 templateUrl: './new-account.component.html',
styleUrls: ['./new-account.component.css'],
 // providers: [LoggingService]
export class NewAccountComponent {
 constructor(private loggingService: LoggingService,
       private accountsService: AccountsService) {
  this.accountsService.statusUpdated.subscribe(
   (status: string) => alert('New Status: ' + status)
  );
 onCreateAccount(accountName: string, accountStatus: string) {
  this.accountsService.addAccount(accountName, accountStatus);
  // this.loggingService.logStatusChange(accountStatus);
```

```
}
logginng.service.ts
export class LoggingService {
 logStatusChange(status: string) {
  console.log('A server status changed, new status: ' + status);
accounts.service.ts
import { EventEmitter, Injectable } from '@angular/core';
import { LoggingService } from './logging.service';
@Injectable()
export class AccountsService {
 accounts = [
   name: 'Master Account',
   status: 'active'
   name: 'Testaccount',
   status: 'inactive'
  },
   name: 'Hidden Account',
   status: 'unknown'
 statusUpdated = new EventEmitter<string>();
 constructor(private loggingService: LoggingService) {}
```

```
addAccount(name: string, status: string) {
    this.accounts.push({name: name, status: status});
    this.loggingService.logStatusChange(status);
}

updateStatus(id: number, status: string) {
    this.accounts[id].status = status;
    this.loggingService.logStatusChange(status);
}
```