RIGHT STROKE FULL STACK TRAINING

Week-3 Assessment Angular

1. Develop a Angular Project that show cases One way and two way data binding (Property binding and Event Binding).

 Program:

One way Data Binding:

Property Binding:

Html:

```
<div>

    <h2>Click the button below to feel PropertyBinding</h2>

    <a class="btn btn-warning" [href]="name">Property Binding</a>

</div>
```

Ts file:

```
export class SampleComponent implements OnInit {

  constructor() { }

  name:string="https://www.google.com/";

  ngOnInit(): void {

  }

}
```

Event Binding:

HTML:

```
<div>

    <h2>Click the button below to feel PropertyBinding</h2>
```

```html
    <button class="btn btn-
warning" type="button" (click)="onSubmit()">Event Binding</button>

</div>
```

Ts file:

```typescript
export class SampleComponent implements OnInit {

  constructor() { }

  ngOnInit(): void {

  }

  onSubmit(){

    alert("Hello!!!!");

  }

}
```

Two way Data Binding:

Html:

```html
<div>

   <h2>Enter ter</h2>

   <input type="text" [(ngModel)]="text" placeholder="Enter text here">

   {{text}}

</div>
```

Ts file:

```typescript
export class SampleComponent implements OnInit {

  constructor() { }

  text:string;

  ngOnInit(): void {

  }
```

}

2. Develop a Angular Project that show cases the following Event binding :- a) Text Box's key entry c) Text Box Key Enter d) Text Area Keyup +Shift +A b) Button on Click.

Program:

Html file:
```html
<div>
    <input (keyup)="onKey($event)" placeholder="Enter Text Here">
       <br>
       <p>This is box key entry value is {{name}}</p>
</div>
-------------------------------------------------------------
<div>
    <input #switch (keyup.enter)="onEnter(switch.value)" placeholder="Enter Text
Here">
       <br>
       <p>This is switch key enter value is {{value}}</p>
</div>
-------------------------------------------------------------
<div>
    <input #box (keydown.Shift.A)="onEnterShift(box.value)" placeholder="Enter T
ext Here">
    <br>
    <p>This is box keyup+shift+a is {{val}}</p>
</div>
-------------------------------------------------------------
<div>
    <h2>Click the button below to feel Event Binding</h2>
    <button class="btn btn-
warning" type="button" (click)="onSubmit()">Event Binding</button>
</div>
```

Ts file:
```typescript
import { Component, OnInit } from '@angular/core';

@Component({
  selector: 'app-sample',
  templateUrl: './sample.component.html',
  styleUrls: ['./sample.component.css']
})
export class SampleComponent implements OnInit {
```

```
  constructor() { }
  text:string;
  ngOnInit(): void {
  }
  name:any='';
  onKey(event:any){
    this.name=event.target.value;
  }

  value:any='';
  onEnter(value:string){
    this.value=value;
  }

  val:any='';
  onEnterShift(key:string){
    this.val=key;
  }
  onSubmit(){
    alert("Hello!!!!");
  }
}
```

3. Develop a Angular project that uses template reference variable for text box, text area and select drop down control

Program:

Html file:
```
<div class="container">
   <div>
      <select #select [(ngModel)]="selectedRanger" (change)="log(select.value)">
        <option *ngFor="let ranger of rangers" [value]="ranger.id">{{ranger.rangerName}}</option>
      </select>
   </div>
   <br>
   <div>
      <button (click)="Str=''">Clear</button>
   </div>
   {{Str}}
</div>
```

Ts file:
```
import { Component, OnInit } from '@angular/core';
```

```
@Component({
  selector: 'app-sample',
  templateUrl: './sample.component.html',
  styleUrls: ['./sample.component.css']
})
export class SampleComponent implements OnInit {
  ngOnInit(): void {
    throw new Error('Method not implemented.');
  }

  selectedRanger:number=0;

  public rangers:any=[
    {
      id:1,
      rangerName:'Conner McKnight',
      rangerType:'Red Dhino Ranger'
    },
    {
      id:2,
      rangerName:'Kira Ford',
      rangerType:'Yellow Dhino Ranger'
    },
    {
      id:3,
      rangerName:'Ethan James',
      rangerType:'Blue Dhino Ranger'
    }
  ];
  Str:String=''
  log(id:number)
  {
    for(var r of this.rangers)
    {
      if(r.id===+id)
      {
        this.Str=`You have opted ${r.rangerType} `;
      }
    }
  }
}
```

4. Develop a Angular Project with one child control. And pass data from parent control (ex app.component.ts) to the child data via property binding.

Program:

appcomponent.html:

```html
<div class="container p-2">
    <app-sample *ngFor="let ranger of Rangers" [value1]="ranger.fname"></app-sample>
</div>
```

appcomponent.ts:

```typescript
import { Component } from '@angular/core';

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent {
  title = 'creditcard';

  Rangers=[
    {id:1,fname:"RedRanger"},
    {id:2,fname:"BlueRanger"},
    {id:3,fname:"GreenRanger"}
  ];
}
```

samplecomponent.html:

```html
<p>The selected Ranger is {{value1}}</p>
```

samplecomponent.ts:

```typescript
import { Component, Input, OnInit } from '@angular/core';

@Component({
  selector: 'app-sample',
  templateUrl: './sample.component.html',
  styleUrls: ['./sample.component.css']
})
export class SampleComponent implements OnInit {

  constructor(){}
```

```
  @Input()
  public value1:String;

  ngOnInit(): void {

  }
}
```

5. Develop a Angular Project that displays a list of Products details (id, name,description,cost) in a grid format. The solution should be able to display unique identifier for each record, and able to show even and odd record with efficient data update technique.

Program:

<u>Html file:</u>
```
<div class="container mt-5">
  <table class="table">
    <tr>
      <th>ID</th>
      <th>Product</th>
      <th>Description</th>
      <th>Cost</th>
      <th>Even</th>
      <th>Odd</th>
    </tr>
    <tr *ngFor="let person of persons;even as e;odd as o">
      <td>{{person.Id}}</td>
      <td>{{person.Product}}</td>
      <td>{{person.Description}}</td>
      <td>{{person.Cost}}</td>
      <td>{{e}}</td>
      <td>{{o}}</td>
    </tr>
  </table>
<div class="row">
 <div class="col">
   <input type="number" class="form-
control" placeholder="Id" [(ngModel)]="Id">
 </div>
 <div class="col">
   <input type="text" class="form-
control" placeholder="Product Name" [(ngModel)]="Product">
 </div>
 <div class="col">
```

```html
      <input type="text" class="form-
control" placeholder="Description" [(ngModel)]="Description">
  </div>
  <div class="col">
      <input type="text" class="form-
control" placeholder="Cost" [(ngModel)]="Cost">
  </div>
  <div class="col">
      <button class="btn btn-success btn-
block" (click)="add(Id,Product,Description,Cost)">Add</button>
  </div>
</div>

</div>
```

Ts file:
```typescript
import { Component, Input, OnInit } from '@angular/core';

@Component({
  selector: 'app-sample',
  templateUrl: './sample.component.html',
  styleUrls: ['./sample.component.css']
})
export class SampleComponent implements OnInit {

  constructor(){}
  title = 'angularAssignment1';
  persons = [

  ];

  Id:number;
  Product: String;
  Description:String;
  Cost:String;

  add(Id,Product,Description,Cost){
    this.persons.push({
      "Id":Id,
      "Product": Product,
      "Description":Description,
      "Cost":Cost

    });
```

```
      // resetting the input field

      this.Id = undefined;
      this.Product = "";
      this.Description="";
      this.Cost="";
   }
   ngOnInit(): void {

   }
}
```

6. Develop a Angular Project that displays a list of countries(ex India.Singapore,USA,UK) in a drop down, based on the selected country we need to display specific contents to the user. If India is selected, the page should display a section asking the user to enter the name and aadhaar number, if US is selected the page should display a section asking the user to enter SSN and Passport number, in case of UK, the user should see the section to enter only the password.

Program:

Html file:

```html
<div class="container p-20">
   <h3>Please select the country:</h3>
   <select  [(ngModel)]="k">
     <option *ngFor="let cnt of countries" [value]="cnt.Id">{{cnt.Country}}</option>
   </select>
 </div>
 <br>
 <div class="container">
  <div [ngSwitch]="k">
    <div *ngSwitchCase="1">
     <div class="container">
       <div>
         <label>Enter the name:</label>
         <input type="text" class="form-control" placeholder="Username">
       </div>
       <div>
         <label>Enter the Aadhar number:</label>
         <input type="text" class="form-control" placeholder="Aadhar">
       </div>
     </div>
    </div>
```

```html
    <div *ngSwitchCase="2">
      <div class="container">
        <div>
          <label>Enter the SSN number:</label>
          <input type="number" class="form-control" placeholder="SSN number">
        </div>
        <div>
          <label>Enter the passport number:</label>
          <input type="number" class="form-control" placeholder="Passport number">
        </div>
      </div>
    </div>
    <div *ngSwitchCase="3">
      <div class="container">
        <div>
          <label>Enter the Password:</label>
          <input type="password" class="form-control" placeholder="Password">
        </div>
      </div>
    </div>
  </div>
  </div>
```

Ts file:

```typescript
import { Component, Input, OnInit } from '@angular/core';
@Component({
  selector: 'app-sample',
  templateUrl: './sample.component.html',
  styleUrls: ['./sample.component.css']
})
export class SampleComponent implements OnInit {

  constructor(){}
  title = 'angularAssignment1';
  k:number=0
  countries=[
   {Id:1,Country:"India"},
   {Id:2,Country:"US"},
   {Id:3,Country:"UK"},
]
  ngOnInit(): void {

  }
}
```