



STAGE 1

INSTRUCTIONS

Go to src/app folder and create a sub-folder src/app/Services

Go to src/app/Services folder and create a sub-folder
src/app/Services/MyStackImplementation

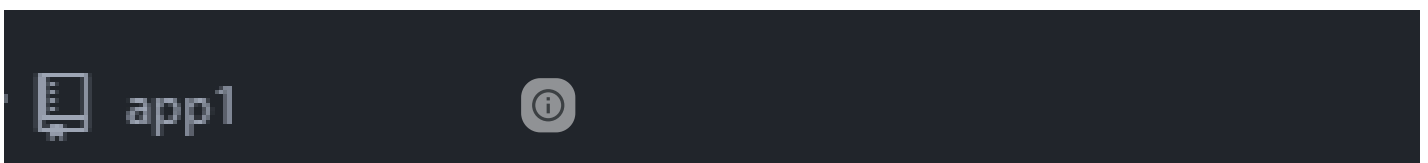
Go to MyStackImplementation folder using command prompt
then execute

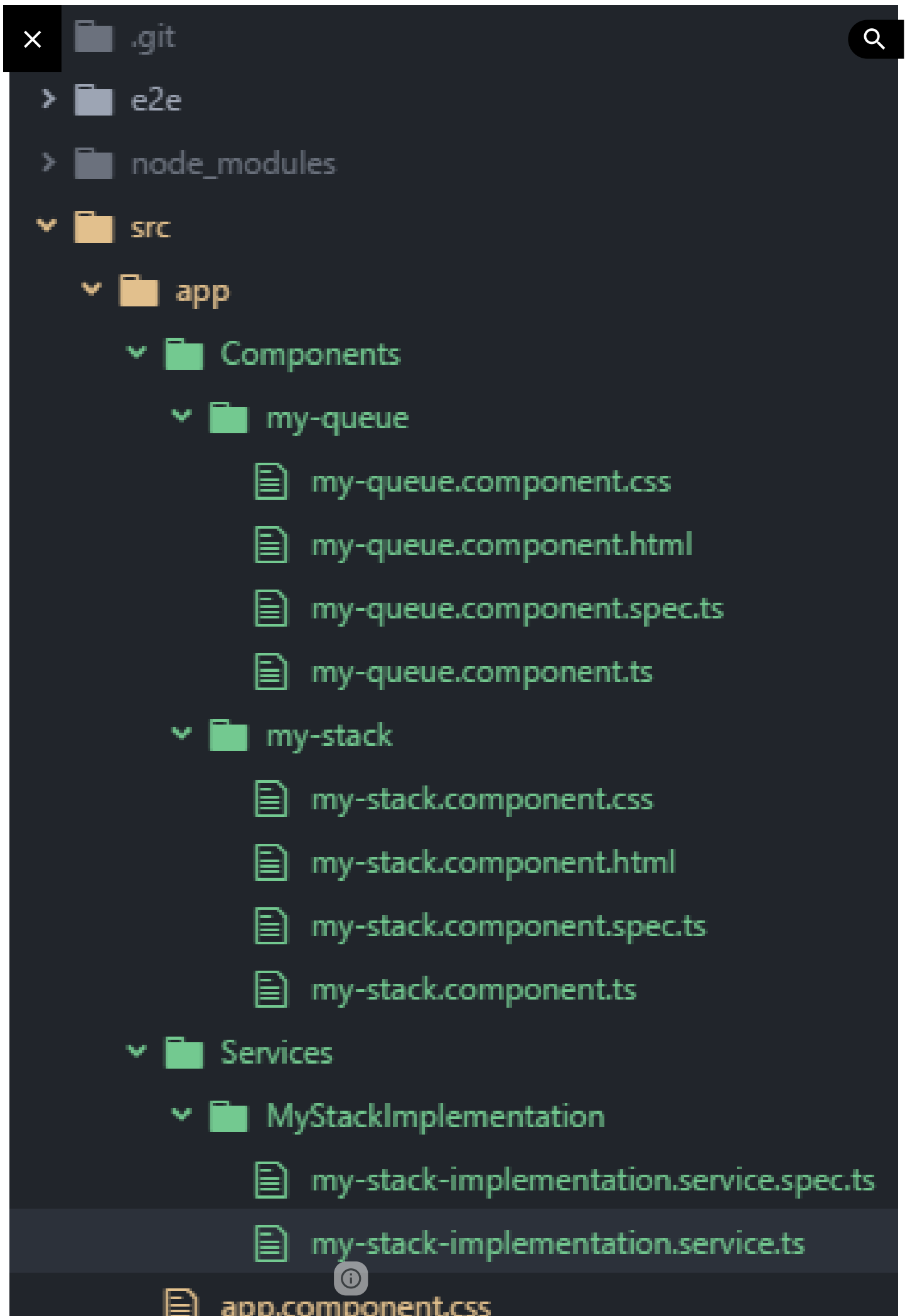
NG G SERVICE MYSTACKIMPLEMENTATION

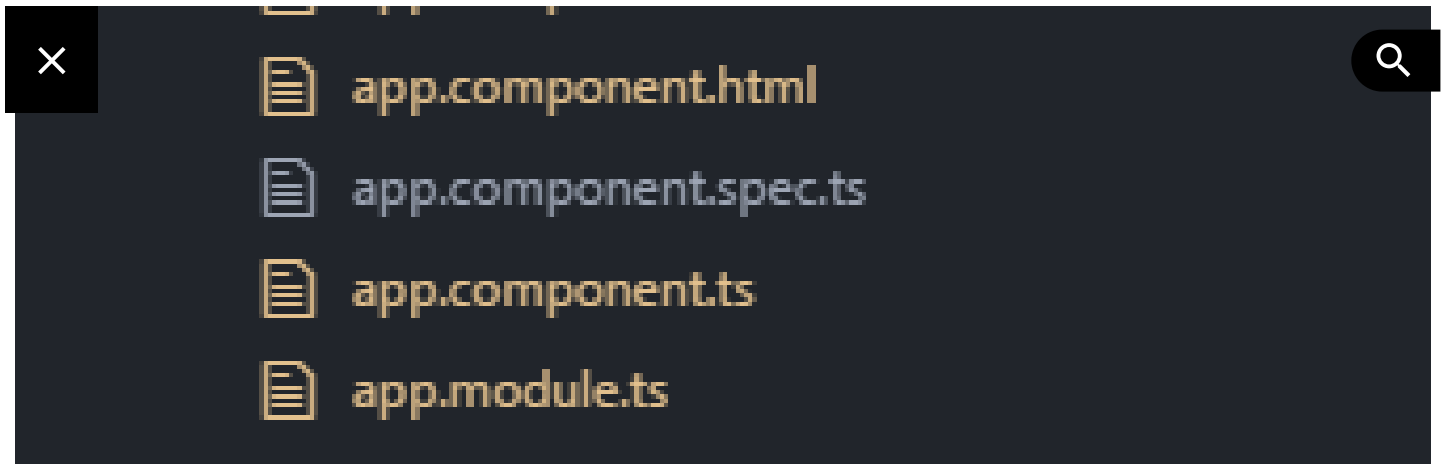
Copy the code given below to respective files and then execute

NG SERVE

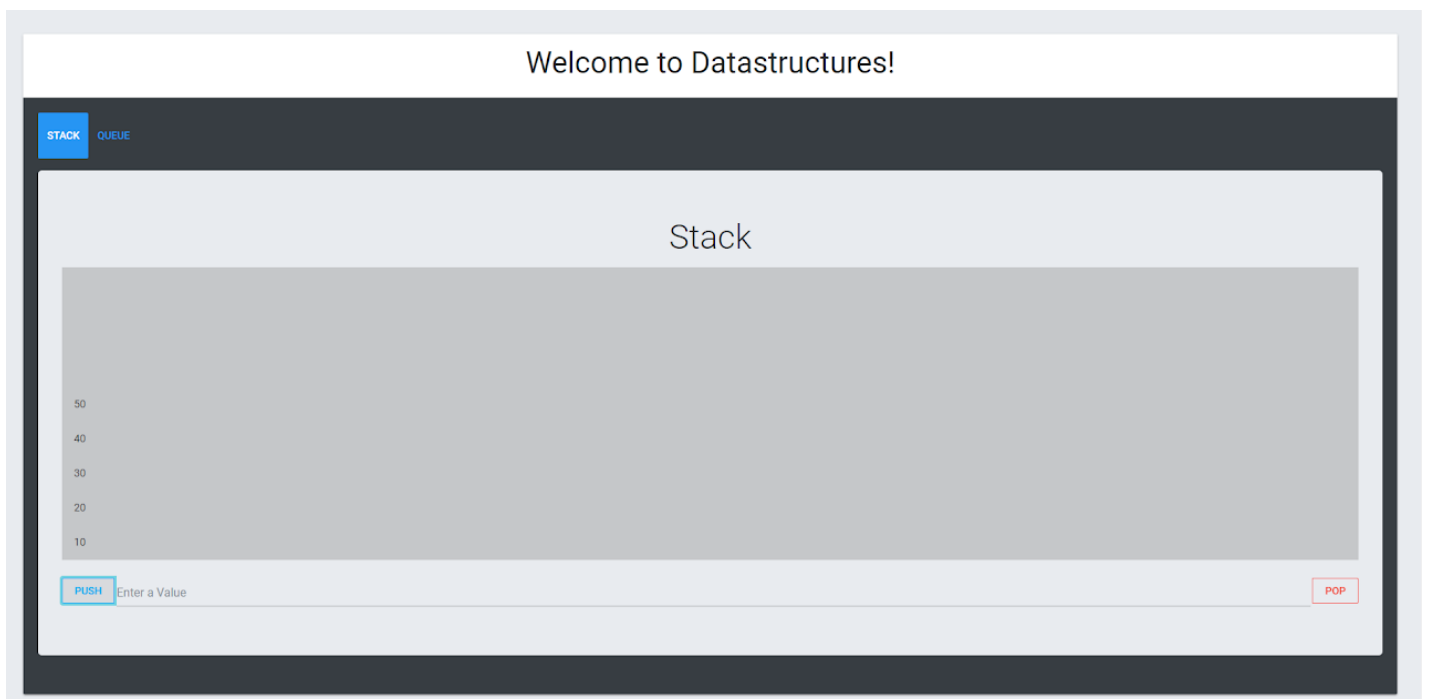
FOLDER STRUCTURE







OUTPUT



MY-STACK.COMPONENT.HTML



```

X v class="jumbotron">
<h1 class="display-3" style="text-align:Center">Stack</h1>
<div class="form-group">
  <div>
    <ul class="list-group">
      <li *ngFor="let num of stack.stk" class="list-group-item
list-group-item-dark">
        {{num}}
      </li>
    </ul>
  </div>
</div>
<div class="input-group">
  <span class="input-group-btn">
    <button type="button" (click)="pushHandler()" class="btn
btn-outline-info">Push</button>
  </span>
  &nbsp;
  <input type="text" id="val" class="form-control"
placeholder="Enter a Value">
  &nbsp;
  <span class="input-group-btn">
    <button type="button" (click)="popHandler()" class="btn
btn-outline-danger">pop</button>
  </span>
</div>
</div>

```

MY-STACK.COMPONENT.TS

```

import { Component, OnInit } from '@angular/core';
import { MyStackImplementationService } from
'../../Services/MyStackImplementation/my-stack-
implementation.service';

@Component({
  selector: 'app-my-stack',
  templateUrl: './my-stack.component.html',
  styleUrls: ['./my-stack.component.css'],

```

providers: [MyStackImplementationService]



```
export class MyStackComponent implements OnInit {

  stack: MyStackImplementationService;
  data = "";
  constructor(s: MyStackImplementationService)
  {
    console.log("Constructor of MyStack Called");
    this.stack = s
  }

  pushHandler()
  {
    console.log("Push Handler Called!");
    var t = (<HTMLInputElement>document.getElementById("val"));
    var string = t.value;
    t.value = "";
    this.stack.push(parseInt(string));
    this.stack.print();
  }

  popHandler()
  {
    console.log("Pop Handler Called!");
    this.stack.pop();
    this.stack.print();
  }

  ngOnInit() { }
}
```

MY-STACK-IMPLEMENTATION.SERVICE.TS

```
import { Injectable } from '@angular/core';

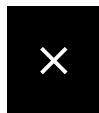
@Injectable()
export class MyStackImplementationService {
```





```
stk : number[];  
sp: number;  
  
constructor()  
{  
    console.log("Constructor of My Stack Implemetation");  
    this.stk = new Array(10);  
    this.sp = 10  
}  
  
push(v:number)  
{  
    console.log("Push Called!");  
    if(this.sp == 0)  
    {  
        console.log("Stack Overflow");  
    }  
    else  
    {  
        this.stk[--this.sp] = v;  
    }  
}  
  
pop()  
{  
    console.log("Pop Called!");  
    if(this.sp == 10)  
    {  
        console.log("Stack Underflow");  
    }  
    else  
    {  
        this.stk[this.sp] = 0;  
        return this.stk[this.sp++];  
    }  
}  
  
print()  
{
```





```
for(var i in this.stk) console.log(this.stk[i])
```



```
}
```

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