

1. Write a program in JavaScript to create functions and prototypes

Index.html:

```
<html>
  <head>
    <meta charset="utf-8">
  </head>
  <body>
    <h1>Mean Stack</h1>
    <p>Lesson 3 Demos</p>

    <script src="functions_and_prototypes.js"></script>
  </body>
</html>
```

Functions_with_Prototypes.js:

```
//function Constrcutor
function Employee(name,designation, yearOfBirth){
  this.name=name;
  this.designation=designation;
  this.yearOfBirth=yearOfBirth;
}

// creating calculateAge() method to the Prototype property
Employee.prototype.calculateAge=function(){
  console.log('The current age is:' +(2024- this.yearOfBirth))
}
console.log(Employee.prototype);

// creating objects
let Emp1 = new Employee('Alex','Junior Tester', 1999);
console.log(Emp1);
Emp1.calculateAge();

let Emp2 = new Employee('Dexter','Senior Software Developer',1995);
console.log(Emp2);
Emp2.calculateAge();

let Emp3 = new Employee('Annie','Junior HR', 2001);
console.log(Emp3);
Emp3.calculateAge();
```

Output:

The screenshot shows a web browser window with the address bar displaying `127.0.0.1:5500/index.html`. The page content includes the heading **Mean Stack** and a sub-heading **Lesson 3 Demos**. The main area of the page is empty. On the right side, the browser's developer console is open, showing a log of messages. The messages are as follows:

- `{calculateAge: f, constructor: f}` (functions_and_prototypes.js:12)
- `Employee {name: 'Alex', designation: 'Junior Tester', yearOfBirth: 1999}` (functions_and_prototypes.js:16)
- The current age is:25 (functions_and_prototypes.js:18)
- `Employee {name: 'Dexter', designation: 'Senior Software Developer', yearOfBirth: 1995}` (functions_and_prototypes.js:28)
- The current age is:29 (functions_and_prototypes.js:18)
- `Employee {name: 'Annie', designation: 'Junior HR', yearOfBirth: 2001}` (functions_and_prototypes.js:28)
- The current age is:23 (functions_and_prototypes.js:18)

The console interface includes a search bar, a filter dropdown set to 'Default levels', and a list of 4 messages. The bottom of the console shows tabs for 'Console' and 'Issues'.