**Day 1 Lab Assignments**

1. Install Angular on your machine [You need NodeJS installed on your machine].
   1. Run this command (ng –v) that displays the angular version to make sure that it’s installed successfully.
   2. You can install the following (**OPTIONAL**) extensions to visual studio code to support Angular intellisense:
      1. Angular 10 and TypeScript/HTML VS code snippets
      2. Angular 10 Snippts
2. Create new Angular project.
   1. Explore the project folder and file structure.
   2. Change the root component selector to: myfirstapp-root in the @componenet decorator function and change the selector directive in index.html.
      1. What’s Decorator function?
      2. And why we need @component() function in the component.ts file.
   3. Find where does angular define the bootstrapping module, and bootstrapping component.
   4. Use Bootstrap with your Angular project.
   5. Run your project.
   6. Try running the project in different port number than the default port number (port 4500 for example).
   7. Change the icon of the project.
   8. Congratulations! You Created your first project!
3. Create the following components, and add them to your root component:
   1. Component named header, that will be displayed in page header, which has:
      1. Bootstrap responsive navbar.
      2. Photo banner
         1. Add it in the assets folder.
         2. Add a property in the component class, and use property binding to display it in the header.
   2. Component named footer, and display it in the page footer.
   3. Component named Products to be displayed in the body, make it empty for now.
   4. Review the app.module, and see how the components you created were added in imports and in declaration in @ngmodule decorator function.
4. Create New folder in the app folder (Name it: Shared Classes and types), and create the following inside it:
   1. Interface named IProduct, which has:
      1. ID – of type number.
      2. Name – of type string
      3. Quantity – Of type number.
      4. Price – of type number.
      5. Img – of type string
   2. Interface Named ICategory, which has: ID, Name.
   3. Enum named DiscountOffers with values: (“No Discount”, “10%”, “15%”).
5. In the product component:
   1. In the Component class, add the following properties:
      * 1. Property “Discount” of type DiscountOffers Enum.
        2. Property “Store name” of type string.
        3. Property “Store Logo” of type string.
        4. Property “ProductList” which is an array of IProduct.
        5. Property “CategoryList” which an array of type ICategory.
        6. Property “ClientName” of type String.
        7. Property “IsPurshased” of type Boolean.
   2. In the constructor initialize the previous properties with any suitable values.
   3. In the Component HTML:
      * 1. <h1> tag to display store name (Use angular Expression {{}}).
        2. <img> tag to display store logo (Use property binding [src]).
        3. <h3> tag to display this text: “We offer an explicit discount of:” + Discount value from the discount property (Use angular Expression {{}}).

**Bonus:**

1. Install bootstrap to your project using npm, instead of using its CDN.
2. Install jquery to your project, and install it types.
3. Use unit testing with your angular app.

**<Script>document.write(“Thank YOU”) </Script>**