

PRACTICE ASSESSMENT 4

Build Specifications:

- Declare an interface called `Camera` that contains the following properties:
 - `brand` - string
 - `model` - string
 - `price` - number
 - `fixedLens` - boolean
- Declare an array called `cameraCollection` which is of type `Camera` array
- Add these four objects to `cameraCollection`:

Brand	model	Price	fixedLens
Nikon	D600	2000	false
Nikon	Z5	1500	false
Fujifilm	X100F	1200	true
Polaroid	OneStep 2	80	true

- Declare a function named `findCameras`
 - Parameter(s): `arrayOfCameras` (type `Camera` array), `model` (type string)
 - Return type: `Camera` array
 - Functionality: When called, this function will return an array of all the cameras from the `arrayOfCameras` argument that have the specified `model` argument. If there are no cameras that have that model, return an empty array.
- Declare a function named `addCamera`
 - Parameter(s): `arrayOfCameras` (type `Camera` array), `brand` (type string), `model` (type string), `price` (type number), `fixedLens` (type boolean)
 - Return type: `void`
 - Functionality: construct an object of type `Camera` and push it into `arrayOfCameras`
- Declare a function named `areThereAnyFixedLensForSale`
 - Parameter(s): `arrayOfCameras` (type `Camera` array)
 - Return type: `boolean`

- Functionality: when called, this function will return true if there is a fixedLens camera in the arrayOfCameras argument and false otherwise.
 -
 - Declare a function named `collectionValue`
 - Parameter(s): `arrayOfCameras` (type Camera array)
 - Return type: number
 - Functionality: when called, this function will calculate total value of camera collection.
-

Setup:

1. Create your TS file, `script.ts`.
2. On the command line run...
`tsc --init`
3. (Optional) In VS Code, modify the `tsconfig.json` file. Change "target": "es5" to "target": "es6". This will allow you to use all the beautiful ES6 features that we love!
4. To start TypeScript automatically compiling, run this on the command line.
`tsc --watch`
5. In a separate command line tab or window run your JavaScript with one of two options:
 - a. `node script.js` - run each time you test
 - b. `nodemon script.js` - run once to automatically re-run your code every time you save