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**Class:** MCA 3A

**Subject:** Full Stack Web Development TMC 305

**1. Write a program to create an item collection and clone the items using AngularJS directives.**

**Index.js**

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Example - example-ngRepeat-tracking-production</title>
  <link href="animations.css" rel="stylesheet" type="text/css">
  <script
src="//code.angularjs.org/snapshot/angular.min.js"></script>
  <script src="//code.angularjs.org/snapshot/angular-
animate.js"></script>
  <script src="script.js"></script>
</head>
<body ng-app="ngRepeat">
  <div ng-controller="repeatController">
    <button ng-click="removeFirst()">Remove First</button>
    <button ng-click="updateAge()">Update Age</button>
    <button ng-click="copy()">Copy</button>
    <br><button ng-click="reset()">Reset List</button>
    <br>
    <code>track by $id(friend)</code> (default):
    <ul class="example-animate-container">
      <li class="animate-repeat" ng-repeat="friend in
friends">    {{friend.name}} is {{friend.age}} years
old.
      </li>
    </ul>
```

`<code>track by $id(friend)</code>` (default), with age one-time binding:

```
<ul class="example-animate-container">
  <li class="animate-repeat" ng-repeat="friend in
friends">    {{friend.name}} is {{::friend.age}} years
old.
  </li>
</ul>
```

`<code>track by friend.name</code>`, with age one-time binding:

```
<ul class="example-animate-container">
  <li class="animate-repeat" ng-repeat="friend in friends track by
friend.name">    {{friend.name}} is {{::friend.age}} years old.
  </li>
</ul>
```

`<code>track by $index</code>`, with age one-time binding:

```
<ul class="example-animate-container">
  <li class="animate-repeat" ng-repeat="friend in friends track
by $index">    {{friend.name}} is {{::friend.age}} years old.
  </li>
</ul>
</div>
</body>
</html>
```

## Script.js

```
(function(angular) {
  'use strict';
  angular.module('ngRepeat',
['ngAnimate']).controller('repeatController', function($scope) {  var
friends = [
    {name:'Sardul', age:21},
    {name:'Ankit', age:22},
  ];

  $scope.removeFirst = function() {
```

```
    $scope.friends.shift();  
  };  
  
  $scope.updateAge = function() {  
    $scope.friends.forEach(function(el) {  
      el.age = el.age + 5;  
    });  
  };  
  
  $scope.copy = function() {  
    $scope.friends = angular.copy($scope.friends);  
  };  
  
  $scope.reset = function() {  
    $scope.friends = angular.copy(friends);  
  };  
  
  $scope.reset();  
});  
})(window.angular);
```

```
<!doctype html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title> Example - example-ng Repeat - tracking-
production </title>
<link href="animations.css" rel="stylesheet" type
="text/css">
```

```
<script
src="//code.angularjs.org/1.4.3/angular-
min.js"></script>
<script src="//code.angularjs.org/1.4.3/angular-
animate.js"></script>
```

```
<script src="script.js"></script>
</head>
<body ng-app="ngRepeat">
<div ng-controller="repeat controller">
<button ng-click="remove first()" Remove
first </button>
```

```
<button ng-click="update Age()"> update Age </button>
```

```
<button ng-click="copy()"> copy </button>
```

```
<br><button ng-click="reset()">Reset list ></button>
<br>
```

```
<code> track by $id (friend) </code> (default).
```

Date. \_\_\_\_\_

Page No. \_\_\_\_\_

```
<ul class = "example - animate - container">  
  <li class = "animate - repeat" ng-repeat = "friend in  
    friends"> {{ friend . name }} is {{ friend . age }}  
    years old.
```

```
</li>
```

```
</ul>
```

```
<code> track by $id (friend) </code>
```

```
<ul class = "example - animate - container">
```

```
<li class = "animate - repeat" ng-repeat = "friend in  
  friends"> {{ friend name }} is {{ friend . age }}  
  years.
```

```
</li>
```

```
</ul>
```

```
<code> track by friend . name </code>
```

```
<ul class = "example - animate - container">
```

```
<li class = "animate - repeat" ng-repeat = "friend in friends  
track by $index">
```

```
</li>
```

```
</ul>
```

```
</div>
```

```
</body>
```

```
</html>
```



Script. Js

```
(function (angular) {  
  'use strict';  
  angular.module('ngRepeat',
```

```
    ['ngAnimate']).controller('repeatController',  
    function($scope) { var friends = [  
      { name: "Saidul", age: 21 },  
      { name: "Ankit", age: 22 },  
    ];
```

```
    $scope.removeFirst = function() {
```

```
    $scope.friend.shift();  
    };
```

```
    $scope.updateAge = function() {
```

```
    $scope.friends.forEach(function(el) {  
      el.age = el.age + 5;
```

```
    });
```

```
    };
```

```
    $scope.copy = function() {
```

```
    $scope.friends = angular.copy(friends);
```

```
    };
```

```
    $scope.reset();
```

```
    };
```

```
  })(window.angular);
```

# Output

track by \$id(friend) (default):

track by \$id(friend) (default), with age one-time binding:

track by friend.name, with age one-time binding:

track by \$index, with age one-time binding:

track by \$id(friend) (default):

Student 1 is 21 years old.

Student 2 is 22 years old.

track by \$id(friend) (default), with age one-time binding:

Student 1 is 21 years old.

Student 2 is 22 years old.

track by friend.name, with age one-time binding:

Student 1 is 21 years old.

Student 2 is 22 years old.

track by \$index, with age one-time binding:

Student 1 is 21 years old.

Student 2 is 22 years old.