

- 1- Define **Person Object** Contains the following Properties: ID:1, Name : "Empty" ,

Define **employee object** which contains Salary property and make it's **prototype Person Object**

Define **HREmployee object** which contains location Property and make it's **Prototype employee object**

- Test prototype chain in console for HREmployee and Employee objects
  - Try to access person ID and Person Name using HREmployee object
  - Define Name And ID Properties with values For HREmployee Object then test if it accessible with person object
  - Define Age Property with Person Object and test if it accessible with HREmployee Object
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- 2- A- Define Shape Base Abstract Class which contains color property and define PrintColor method and CalcArea and Calcperimeter which will return Zero in Shape Base Class , Define them on Shape prototype object  
B- Define Rect Class Which inherits from Shape Abstract Class (prototypal inheritance)  
Define Width and Height Properties for Rect Class  
C- Define Square Class Which inherits from Rect Class
  - override CalcArea , calcperimeter , printColor , toString which will display color , area and perimeter in rect and square classes
  - create array object which will contains set of objects from rect and square classes then display it's areas
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- 3- Define static property and static method like following case for Rect and Square classes to get number of objects created from rect and square Types

```
function Person(_id,_name){  
    this.ID = _id;  
    this.Name = _name;  
    Person.NumberOfObjects++;  
}
```

```
Person.NumberOfObjects = 0; // Static or Class Property  
Person.DisplayNumberOFObjects = function () { // Static or Class Method  
return this.NumberOfObjects; };
```