

Assignment 3: JavaScript

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Problem Statement:

1. Create a JavaScript restaurantManager class with the following properties:

"restaurantList"

- Type: Array
- Use case: This will contain a list of restaurant object, with the restaurant name, address, and city

"printAllRestaurantNames"

- Type: function
- Arguments: none
- Use case: This will print the name of all restaurant names in restaurantList on console

"filterRestaurantByCity"

- Type: function
- Argument: "city" type: "string"
- Use case: This will filter the restaurant on the basis of the city provided in arguments"

2. Please find order details for Punjabi Tadka restaurant in Delhi as:

```
orderData = {  
  'Below 500': 20,  
  '500-1000': 29,  
  '1000-1500': 30,  
  '1500-2000': 44,  
  'Above 2000': 76  
};
```

- a. Calculate the total number of orders placed for the restaurant.
- b. Calculate the number of order proportion options.

c. Calculate the percentage of each proportion in below format:

```
[{
  id: 1,
  order: "Below 500",
  order percentage: "10.05",
  restaurant: "Punjabi Tadka"
},
{
  id: 2,
  order: "500-1000",
  order percentage: "14.57",
  restaurant: "Punjabi Tadka"
},
{
  id: 3,
  order: "1000-1500",
  order percentage: "15.08",
  restaurant: "Punjabi Tadka"
},
{
  id: 4,
  order: "1500-2000",
  order percentage: "22.11",
  restaurant: "Punjabi Tadka"
},
{
  id: 5,
  order: "Above 2000",
  order percentage: "38.19",
  restaurant: "Punjabi Tadka"
}]
```

Assignment Submission Link: <https://classroom.github.com/a/OKkY26Nn>