

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?.

Expected Output for 2.a:

Total number of orders placed = 199

b. Calculate the number of order proportion options.

Expected Output for 2.b:

Total number of order proportions = 5

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

Expected Output for Question 2.c: Array of Objects

```
[{  
  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/Ek_0MnBN