

DAY-18

```
const countriesAPI = 'https://restcountries.com/v2/all'  
const catsAPI = 'https://api.thecatapi.com/v1/breeds'
```

Exercises: Level 1

1. Read the countries API using fetch and print the name of country, capital, languages, population and area.

```
const url = 'https://restcountries.com/v2/all';  
fetch(url)  
  .then(response => response.json())  
  .then(data => {  
    console.log(data);  
    getInfomation(data);  
  })  
  .catch(error => console.error(error))  
  
const getInfomation = (array) => {  
  for(object of array) {  
    console.log(`Name: ${object.name}`);  
    console.log(`Capital: ${object.capital}`);  
  
    let langArray = [];  
    for(langObject of object.languages) {  
      langArray.push(langObject.name);  
    }  
    console.log(`Languages: ${langArray}`);  
  
    console.log(`Population: ${object.population}`);  
    console.log(`Area: ${object.area}`);  
    console.log("");  
  }  
}
```

Exercises: Level 2

1. Print out all the cat names in to catNames variable.

```
const catsAPI = 'https://api.thecatapi.com/v1/breeds';  
fetch(catsAPI)  
  .then(response => response.json())  
  .then(data => {  
    console.log(data);  
    getCatNames(data);  
  })
```

```

        .catch(error => console.error(error))

const getCatNames = (data) => {
  let catNames = [];
  data.forEach((element) => {
    catNames.push(element.name);
  });
  console.log(catNames);
}

```

Exercises: Level 3

1. Read the cats api and find the average weight of cat in metric unit.

```

const catsAPI = 'https://api.thecatapi.com/v1/breeds';
fetch(catsAPI)
  .then(response => response.json())
  .then(data => {
    console.log(data);
    getCatMetricAvgWeight(data);
  })
  .catch(error => console.log(error))

const getCatMetricAvgWeight = (data) => {
  data.forEach((element) => {
    console.log(`${element.name} => ${element.weight.metric}`);
  });
}

```

2. Read the countries api and find out the 10 largest countries

```

fetch(url)
  .then(response => response.json())
  .then(data => {
    //console.log(data);
    getLargestCountries(data)
  })
  .catch(error => console.error(error));

const getLargestCountries = (data) => {
  const array = creatingObj(data);
  sortArray(array);
  getTop10(array);
}

const creatingObj = (data) => {

```

```

    let newArray = [];
    data.forEach(element => {
        let obj = {};
        obj.name = element.name;
        obj.area = element.area;
        newArray.push(obj);
    });
    return newArray;
}

const sortArray = (array) => {
    for(var i=0; i<array.length-1; i++){
        for(var j=i+1; j<array.length; j++){
            if(array[i].area < array[j].area) {
                let temp = array[j];
                array[j] = array[i];
                array[i] = temp;
            }
        }
    }
}

const getTop10 = (array) => {
    console.log("Top 10 Largest Countries on the basis of area are as follows:");
    const top10 = array.slice(0,10);
    top10.forEach(element => {
        console.log(`${element.name} ==> ${element.area}`);
    });
}

```

3. Read the countries api and count total number of languages in the world used as officials.

```

fetch(url)
    .then(response => response.json())
    .then(data => {
        console.log(data);
        console.log(countOfficialLanguages(data));
    })
    .catch(error => console.error(error))

const countOfficialLanguages = (data) => {
    let count = 0;
    let langArray = [];
    data.forEach(element => {
        element.languages.forEach(lang => {

```

```
        if((langArray.includes(lang.name)) == false)
            langArray.push(lang.name);
    });
    return langArray.length;
}
```