**Let fetch data from API using Request Modules.**

const request = require('request')

const url = 'https://api.darksky.net/forecast/0f117a9db5a9407fd73d76e7555804b1/37.8267,-122.4233'

request({ url: url, json: true }, (error, response) => {

   console.log(response.body.daily.data[0].summary + ' It is currently ' + response.body.currently.temperature + ' degrees out. There is a ' + response.body.currently.precipProbability + '% chance of rain.')

})

const geocodeURL = 'https://api.mapbox.com/geocoding/v5/mapbox.places/Bengaluru.json?access\_token=pk.eyJ1Ijoic2hhbGluaTk4IiwiYSI6ImNqejRsZDVlZDAybzEzZW56NXpxYTRwdG0ifQ.V\_Oz9BJ972Q9Qvh9wMnpQQ&limit=1'

request({ url: geocodeURL, json: true }, (error, response) => {

   const latitude = response.body.features[0].center[0]

   const longitude = response.body.features[0].center[1]

   console.log(latitude, longitude)

})

**The previous code is written without error handling.**

**While working with data, there may chances of internet connectivity**

**To handle data change the code as mentioned below.**

const request = require('request')

const url = 'https://api.darksky.net/forecast/0f117a9db5a9407fd73d76e7555804b1/37.8267,-122.4233'

request({ url: url, json: true }, (error, response) => {

//error Handling

    if(error)

    {

        console.log('Network issues '+error)

    }

   console.log(response.body.daily.data[0].summary + ' It is currently ' + response.body.currently.temperature + ' degrees out. There is a ' + response.body.currently.precipProbability + '% chance of rain.')

})

const geocodeURL = 'https://api.mapbox.com/geocoding/v5/mapbox.places/Bengaluru.json?access\_token=pk.eyJ1Ijoic2hhbGluaTk4IiwiYSI6ImNqejRsZDVlZDAybzEzZW56NXpxYTRwdG0ifQ.V\_Oz9BJ972Q9Qvh9wMnpQQ&limit=1'

request({ url: geocodeURL, json: true }, (error, response) => {

//error handling

    if(error)

    {

        console.log('Network issues '+error)

    }

   const latitude = response.body.features[0].center[0]

   const longitude = response.body.features[0].center[1]

   console.log(latitude, longitude)

})

**Now let’s separate code using callbacks.**

**Create new folder named utils**

**Create file geocode.js**

const request = require('request')

const geocode = (address, callback) => {

   const url = 'https://api.mapbox.com/geocoding/v5/mapbox.places/' + address + '.json?access\_token=pk.eyJ1Ijoic2hhbGluaTk4IiwiYSI6ImNqejRsZDVlZDAybzEzZW56NXpxYTRwdG0ifQ.V\_Oz9BJ972Q9Qvh9wMnpQQ&limit=1'

   request({ url: url, json: true }, (error, response) => {

       if (error) {

           callback('Unable to connect to location services!', undefined)

       } else if (response.body.features.length === 0) {

           callback('Unable to find location. Try another search.', undefined)

       } else {

           callback(undefined, {

               latitude: response.body.features[0].center[0],

               longitude: response.body.features[0].center[1],

               location: response.body.features[0].place\_name

           })

       }

   })

}

module.exports = geocode

**let’s try to use this.**

**Create app.js file**

//accessing geocode function

const geocode = require("./geocode");

geocode('Mumbai',(error,data)=>{

    if(error){

        console.log("Error ",error)

    }

    console.log("Latitude: "+data.latitude);

    console.log("longitude: "+data.longitude);

    console.log("Location: "+data.location);

})

**Execute the same using node app.js**

**Check output**

**You can also change address like Kolkata, Bangalore to see different results.**

**Create one more forecast.js**

const request = require('request')

const forecast = (latitude, longitude, callback) => {

   const url = 'https://api.darksky.net/forecast/0f117a9db5a9407fd73d76e7555804b1/' + latitude + ',' + longitude

   request({ url: url, json: true }, (error, response) => {

       if (error) {

           callback('Unable to connect to weather service!', undefined)

       } else if (response.body.error) {

           callback('Unable to find location', undefined)

       } else {

           callback(undefined, response.body.daily.data[0].summary +

             ' It is currently ' + response.body.currently.temperature +

             ' degrees out. There is a ' + response.body.currently.precipProbability + '% chance of rain.')

       }

   })

}

module.exports = forecast

**to access create new app1.js file**

//accessing geocode and forecast both the functions using callbacks

const forecast = require("./forecast");

const geocode = require("./geocode");

const address=process.argv[2];

if(!address)

{

    console.log('please provide the address');

}

else{

    geocode(address,(error,data)=>{

        if(error)

        {

            console.log("Error "+error);

        }

        forecast(data.latitude,data.longitude, (error,fdata)=>{

            if(error){

                console.log("Error ",error)

            }

            console.log(fdata);

        })

    })

}

**Here I am trying to get address from command line arguments.**

**To execute**

**Node app1.js Kolkata**

**Node app1.js Delhi**

**You will be able to get different results.**