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```
//Created by Saksham Agarwal
 //19323666
 const express = require('express')
4 const app = express()
5 const port = 8000
6 const path = require("path")
7 let publicPath = path.resolve(__dirname, "public")
8 app.use(express.static(publicPath))
 app.listen(port, function(){
       console.log(`Weather app listening on port ${port}!`)
      })
 const fetch = require("node-fetch")
 const APIkey = "5e3372a4963938fde6772cf72372f17e";
 app.get("/", function (req, res) {
      res.sendFile(path.join(__dirname + "/Client.html"))})
 app.get("/weather/:location", Weatherprediction)
 async function Weatherprediction(reg, res) {
      var city = req.params.location
      const url = "https://api.openweathermap.org/data/2.5/forecast?q="+ city +
 "&units=metric" +"&appid=" +APIkey
      var response = await fetch(url)
      let weatherData = await response.json()
      var packing_advise, date = ''
      var temp, windSpeed,rain = 0
      var prediction_list = {
       Umbrella: "The weather is clear today in "+ city + " , no umbrella is
 required!",
        Clothes: '',
        forecastList :[]
      Umbrella = 'N'
      Clothes = ' '
      if(weatherData.list[0].rain != undefined){
          if(JSON.stringify(weatherData).substr(6,4) != ''){
              prediction list.Umbrella = "There is prediction for rain in "
          ,you should bring an umbrella ";
      }
      for(var index = 0; index < (weatherData.list.length); index++){</pre>
          date = weatherData.list[index].dt txt
          temp = weatherData.list[index].main.temp
          rain = Rain_prediction(weatherData.list[index].rain)
          windSpeed = weatherData.list[index].wind.speed;
          packing_advise = Pack(weatherData.list[index].main.temp,
 prediction list)
          prediction_list.forecastList.push(
                  Date: date.
```

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```
Temp: temp,
                   Rainfall: rain,
                   Windspeed: windSpeed,
               }
       res.json(prediction_list)
  }
  function Pack(temp, prediction_list){
       if(temp >= -10 \&\& temp <= 10){
           packing_advise = "Cold"
           prediction_list.Clothes = "It will be a Cold day, wear clothes for
  cold weather"
       else if(temp > 10 && temp <= 20){
           packing_advise = "Warm"
           prediction_list.Clothes = "It will be a warm day, wear clothes for
  warm weather"
       }
      else{
           packing_advise = "Hot"
           prediction_list.Clothes = "It will be a Hot day, wear clothes for Hot
  weather"
       return packing_advise
  }
  function Rain_prediction(weatherData){
       if(weatherData != undefined){
           if(JSON.stringify(weatherData).substr(6,4) != ''){
               rain = parseFloat((JSON.stringify(weatherData)).substr(6,4))
           }
       }
       else{
           rain = '0.0'
       return rain
89 }
```