Name: SEHAG A	SRN:PES2UG20CS457	Section: G
	Date:23-11-21	Unit 4 Assignment Exercise

1. Create a MongoDB database that has a collection of healthcare having different documents (such as hsp_id, hsp_name, hosp_dept, hsp_timings etc)for each hospital. Create a server listening to 8081. Use the POST method to insert document in to the database. Query the database to retrieve the newly inserted document.
2. Create a Meal Time module that will take the time (Hint: Use the Date builtin object) and returns if its breakfast, lunch or dinner time. Export the module in your application to display the mealtime of the day.

OBJECTIVE

The objective of this exercise is to test the student on NodeJS and MongoDB.It evaluates the student's knowledge ofhttp server creation using Node, Reading from MongoDB and NodeJS MongoDB driver.

PREREQUISITE

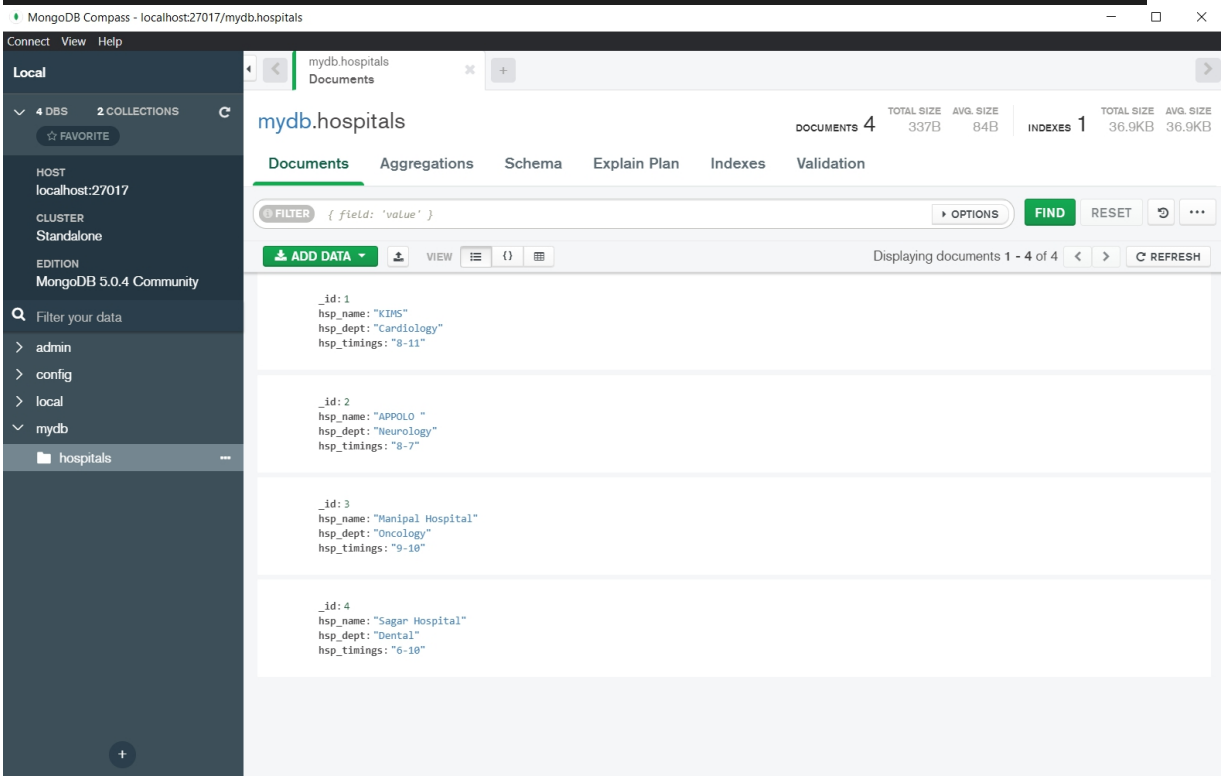
In order to complete this exercise, the student needs to understand the fundamentals of HTML,CSS, and JavaScript

PROGRAM

```
var http=require('http');
var url=require('url');


var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

//database creation
MongoClient.connect(url, function(err,db) {
  if (err) throw err;
  var dbo=db.db('mydb');
  var myobj = [{_id:01, "hsp_name":"KIMS","hsp_dept": "Cardiology","hsp_timings":"8-11"},
               {_id:02, "hsp_name":"APPOLO ","hsp_dept": "Neurology","hsp_timings":"8-7"},
        {_id:03,"hsp_name":"Manipal Hospital","hsp_dept":"Oncology","hsp_timings":"9-10"},
        {_id:04,"hsp_name":"Sagar Hospital","hsp_dept":"Dental","hsp_timings":"6-10"}];

  dbo.collection('hospitals').insertMany(myobj,function(err,res) {

  console.log(res);
  fetched_data=[];
    dbo.collection("hospitals").find({}).toArray((err,res)=>{
  if (err) throw err;
  fetched_data=res;

    console.log("Collection created!");
   db.close();
  });
});
});

//server creation
http.createServer((request,response)=>{
    response.writeHead(200,{'Content-Type':'text-plain'});
  response.end(fetched_data.toString());
  response.end("hello");


}).listen(8081);

//console.log("server is running");
```

SCREENSHOT OF YOUR OUTPUT

```
PS C:\Users\Lenovo\OneDrive\Documents\3rd sem WT\assignment4> node new.js
{
  acknowledged: true,
  insertedCount: 4,
  insertedIds: { '0': 1, '1': 2, '2': 3, '3': 4 }
}
Collection created!
```



2.

PROGRAM

In meal.js :

```
let today = new Date();
module.exports.getMealTime = function() {
  let time = today.getHours();
  if (time > 16)
        return "It's dinner time!";
  else if (time > 12)
        return "It's lunch time!";
  else
        return "It's breakfast time!";
}
```

In app.js :

```
const mealTime = require("./meal");
console.log(mealTime.getMealTime());
```

OUTPUT SCREENSHOT :

```
PS C:\Users\Lenovo\OneDrive\Documents\3rd sem WT\assignment4> node app.js
It's dinner time!
```