

## Assignments on Express:

1. Write the Login.html which takes 2 inputs as user id and password. At the express side, validate it against your name for user id and password as admin. If this criteria matches then return as valid user else return as invalid user.

```
assinments > Q1.js > ...
1  var express = require("express");
2  var app = express();
3  var path = require("path");
4
5  // console.log(path.join(__dirname, "./public"));
6  // const loginpath = path.join(__dirname, "./public")
7
8  port=8000;
9  app.use(express.json());
10
11 app.get("/loginpage", function(req, res) {
12     console.log("loginpage");
13     var uid = req.query.uid;
14     var pass = req.query.password;
15
16     console.log(`the give UID :${uid} and password is :${pass}`);
17     if (uid=="navnath" && pass=="admin")
18     {
19         res.send("your valid user");
20     }
21     res.send("Not valid crediantial please enter valid uid and password")
22 })
```

node - assinnments

```
at /Users/navnathkumbhar/Desktop/Express/node_modules/express/lib/router/index.js:281:22
[nodemon] restarting due to changes...
[nodemon] starting 'node Q1.js'
server is listening at 8000
[nodemon] restarting due to changes...
[nodemon] starting 'node Q1.js'
server is listening at 8000
[nodemon] restarting due to changes...
[nodemon] starting 'node Q1.js'
server is listening at 8000
```

---

your valid user

---

2. Write a express script to take the URL as /getAllEmployeeData and when the browser gives the URL

<http://localhost:8000/getAllEmployeeData>

Array of Employee objects should be returned from express and it should be displayed on browser.

Employee object should have the fields : Id, name, dept and designation.

assinments > Q2.js > ...

```
1 let express = require("express");
2 let app = express();
3
4 const emp=[
5   {ID:101,names:"navnath",dept:'cse',desi:'FS'},
6   {ID:102,names:"varun",dept:'it',desi:'FS'}
7 ]
8
9 app.get('/getAllEmp',(req,res)=>{
10   res.send(emp);
11 });
12
13 app.listen(8000,()=>{
14   console.log("server is listening");
15 });
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

node - assinnments + v

```
[nodemon] starting 'node Q1.js'
server is listening at 8000
^[[A^C
navnathkumbhar@MTXs-MBP assinnments % npx nodemon Q2.js
[nodemon] 2.0.15
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting 'node Q2.js'
server is listening
```

Working locally in Scratch Pad. Switch to a Workspace

NewImport

Overview

POST http://localhost:8000/getAllEmp

No Environment

Save

Send

POST

http://localhost:8000/getAllEmp

Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

KEY	VALUE	DESCRIPTION		Bulk Edit
Key	Value	Description		

Body

Cookies

Headers (7)

Test Results

200 OK12 ms342 B

Save Response

Pretty

Raw

Preview


Visualize

JSON

```
1 {
2   {
3     "ID": 101,
4     "names": "navnath",
5     "dept": "cse",
6     "desi": "FS"
7   },
8   {
9     "ID": 102,
10    "names": "varun",
11    "dept": "it",
12    "desi": "FS"
13  }
14 }
```

Console


RunnerTrash



't have any collections

it you group related requests, m easier to access and run.

Create Collection



---

```
{ "ID":101,"names":"navnath","dept":"cse","desi":"FS"},{ "ID":102,"names":"varun","dept":"it","desi":"FS" }
```

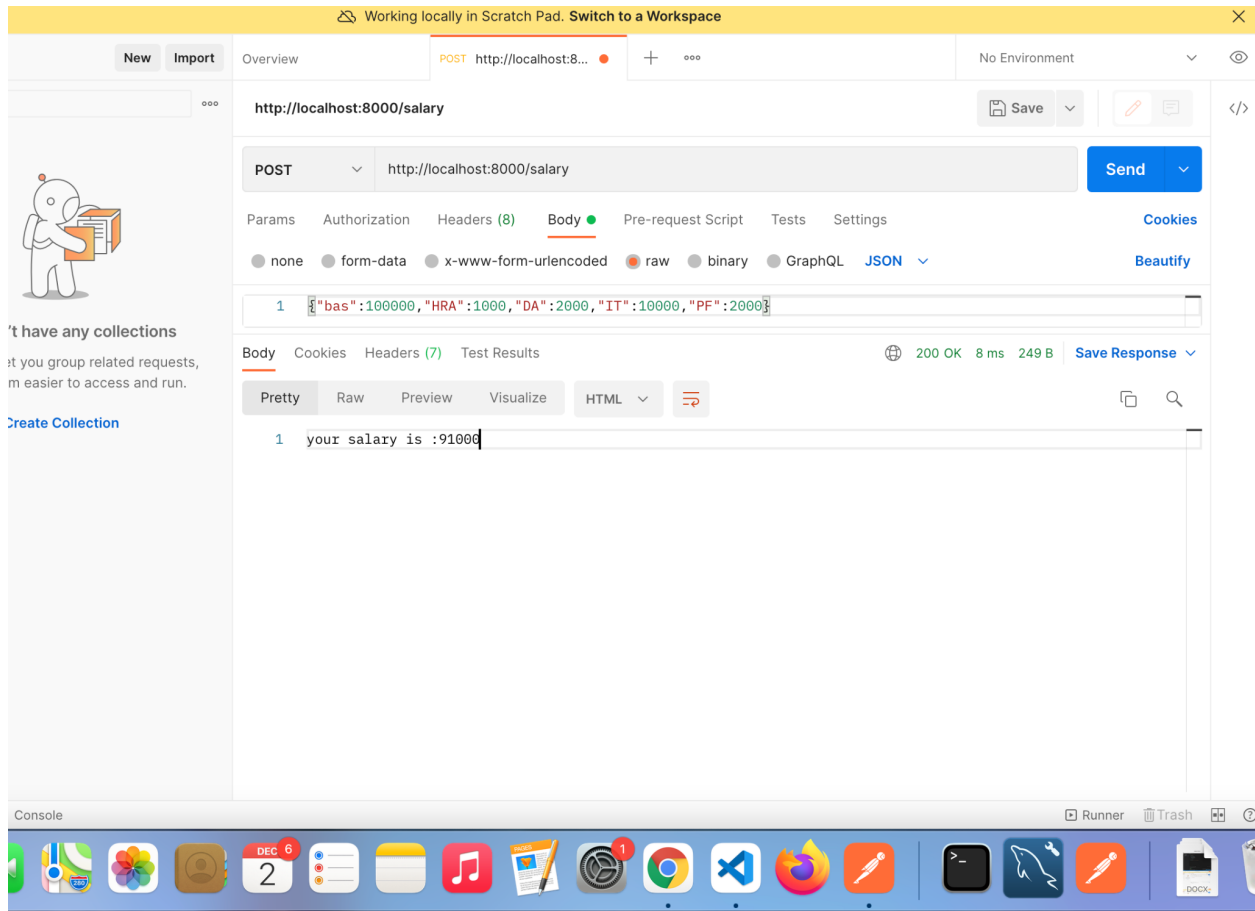
3. Create a post method in express which takes these parameters Basic, HRA,DA, IT and PF and this function calculates the total salary as
- $$\text{total\_salary} = \text{Basic} + \text{HRA} + \text{DA} - (\text{IT} + \text{PF})$$
- and displays the total\_salary as the result of this function.

```
1 const express = require('express');
2 const app = express();
3
4 app.use(express.json());
5
6 app.post('/salary', (req, res) => {
7     var bas = req.body.bas;
8     var HRA = req.body.HRA;
9     var DA = req.body.DA;
10    var IT = req.body.IT;
11    var PF = req.body.PF;
12    var total = bas + HRA + DA - (IT + PF);
13    console.log("total salary is :"+total);
14    res.send("your salary is :"+total);
15 });
16 app.listen(8000, () => {
17     console.log("server is listening at 8000");
18 })
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[nodemon] restarting due to changes...  
[nodemon] starting 'node Q3.js'  
[nodemon] restarting due to changes...  
[nodemon] starting 'node Q3.js'  
server is listening at 8000  
[nodemon] restarting due to changes...  
[nodemon] starting 'node Q3.js'  
server is listening at 8000  
total salary is :NaN  
total salary is :91000

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4. Create array of objects of employees with the fields id, name, dept and designation and create below given functions in express and perform the actions as specified.

- get - `getAllEmployees()` -- Returns all the employees of the array of objects.
- get - `getEmployeeById()` -- Takes the empid as the path param and displays employee record based on given Id.
- get - `getEmployeeByName()` -- Returns all the matching records with the given name.
- post - `insertEmployeeData()` -- Takes an object from input and inserts into the array of objects and returns the string  
 "Record inserted successfully" or "Unable to insert the record". After this operation, verify in postman that given record is inserted by giving `http://localhost:8001/getAllEmployees`
- put - `updateEmployeeData()` -- Takes an object and updates that record in array of objects. After this operation, verify in postman that given record is updated by giving `http://localhost:8001/getAllEmployees`
- delete - `deleteRecord()` -- Takes the id as the path parameter and removes the record on given id and returns

the "Record deleted successfully" or "Unable to delete record".After this operation, verify in postman that given record is deleted by giving <http://localhost:8001/getAllEmployees>

All these operations are to be verified in postman



assinnments > Q2.js > ...

```
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4 const emp=[
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6   {ID:102,names:"varun",dept:'it',desi:'FS'}
7 ]
8
9 app.get('/getAllEmp',(req,res)=>{
10   res.send(emp);
11 });
12
13 app.get('/getEmpByID/:id',(req,res)=>{
14   var id = req.params.id;
15   res.send('your id is :'+id);
16 }
17 );
18 app.get('/getEmpByID/:name',(req,res)=>{
19   var name = req.params.name;
20   res.send('your id is :'+name);
21 }
22 );
23
24 app.post('/insertEmpData',(req,res)=>{
25   emp.push(req.body);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

node - assinnments + ×

assinnments > Q2.js > ...

```
24 app.post('/insertEmpData',(req,res)=>{
25     emp.push(req.body);
26     res.send("inserted");
27 });
28
29 app.put('/updateEmpData/:ID',(req,res)=>{
30     var ia =req.params.ID;
31     var index = -1;
32     for(let i=0;i<emp.length;i++){
33         if(emp[i].id==ia)
34         {
35             index = i;
36             break;
37         }
38     }
39     if(index ==-1)
40         res.send(index)=req.body;
41     res.send("updated .....")
42 })
43
44 app.delete("/deleteData",(req,res)=>{
45     var idd = req.params.ID;
46     var fl = -1;
47     for(let i=0;i<emp.length;i++){
48         if(emp[i].id ===idd)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

node - assinnments + x

```
assinnments > Q2.js > ...
50
51     }
52
53     if(fl==-1){
54         res.send("not found")
55     }
56     else{
57         emp.splice(fl,1);
58         res.send("deleted ....")
59     }
60 });
61
62 app.listen(8000,()=>{
63     console.log("server is listening");
64 });
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

node - assinnments + v

```
server is listening at 8000
[nodemon] restarting due to changes...
[nodemon] starting 'node Q3.js'
server is listening at 8000
[nodemon] restarting due to changes...
[nodemon] starting 'node Q3.js'
server is listening at 8000
[nodemon] restarting due to changes...
[nodemon] starting 'node Q3.js'
server is listening at 8000
[nodemon] restarting due to changes...
[nodemon] starting 'node Q3.js'
server is listening at 8000
[nodemon] restarting due to changes...
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navnathkumbhar@MTXS-MBP assinnments % npx nodemon Q2.js
[nodemon] 2.0.15
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting 'node Q2.js'
server is listening
```

GET http://localhost:80... ● + ...



Send 

## Cookies

## Beautify

200 OK 7 ms 342 B Save Response



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