

UNIVERSITY PARTNER

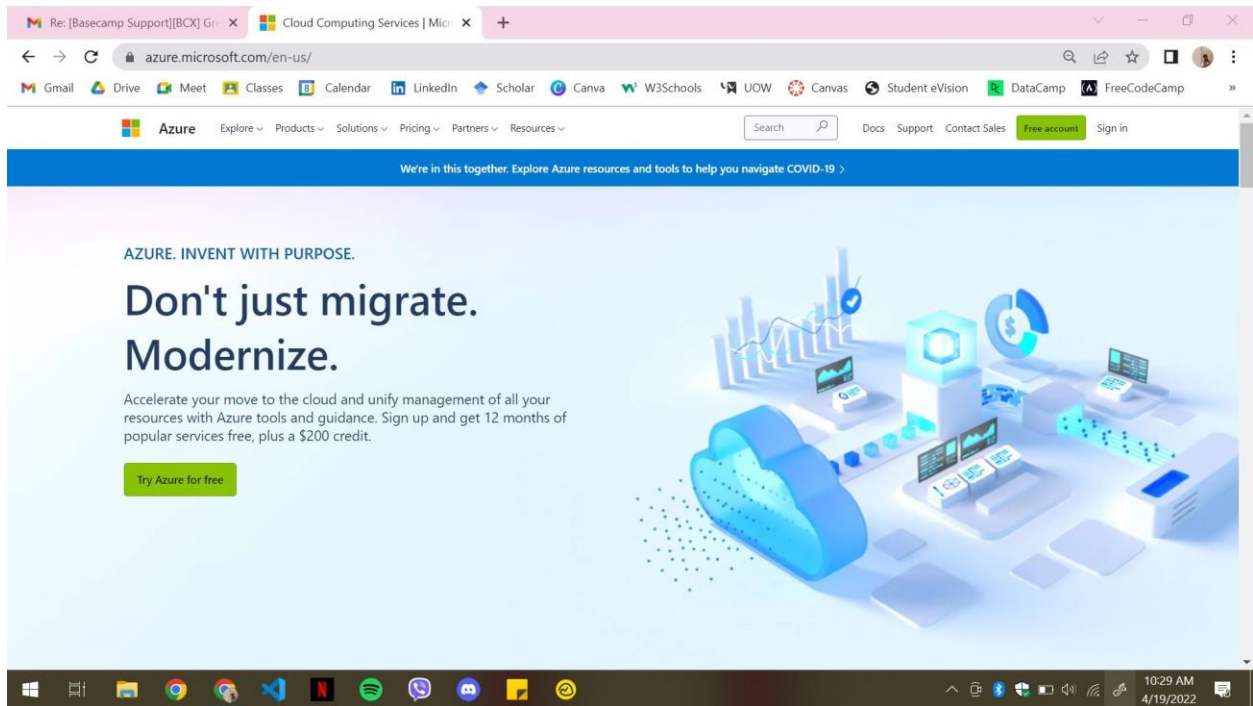


DISTRIBUTE AND CLOUD SYSTEMS PROGRAMMING (5CS022)

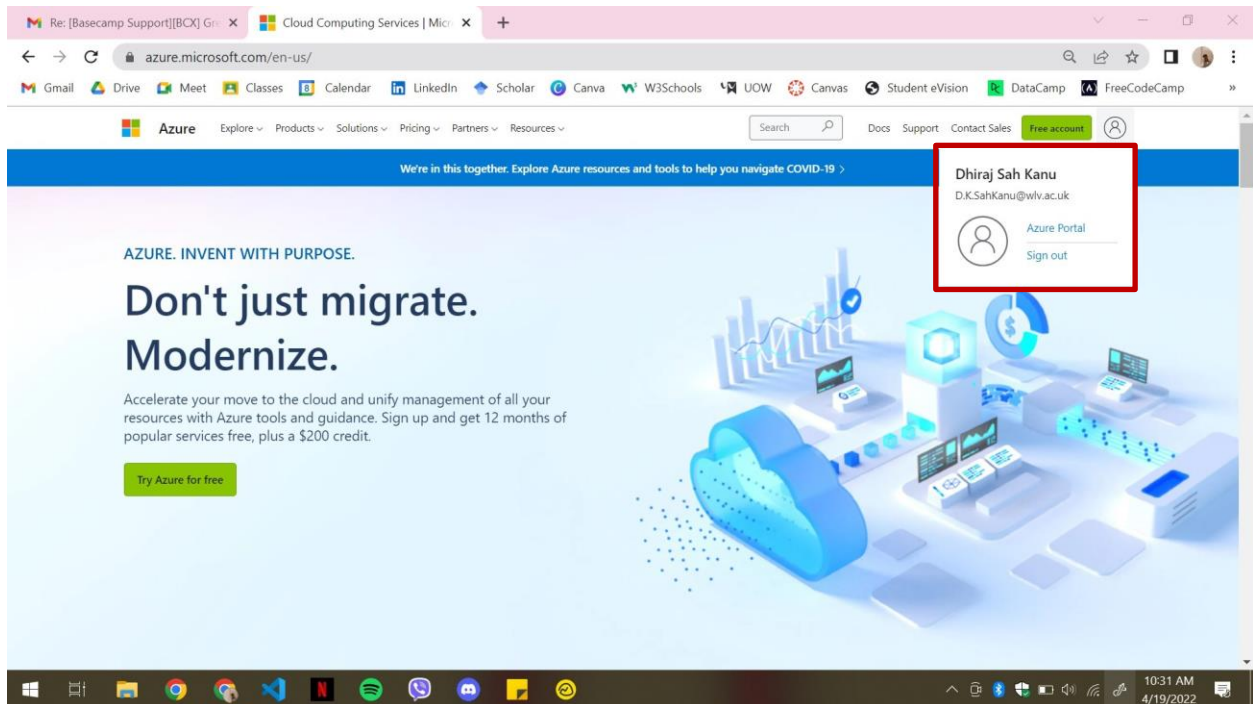
WEEK 5 WORKSHOP

Student Id	: 2065697
Student Name	: Dhiraj Kumar Sah Kanu
Group	: L5CG12
Submitted on	: April 19, 2022

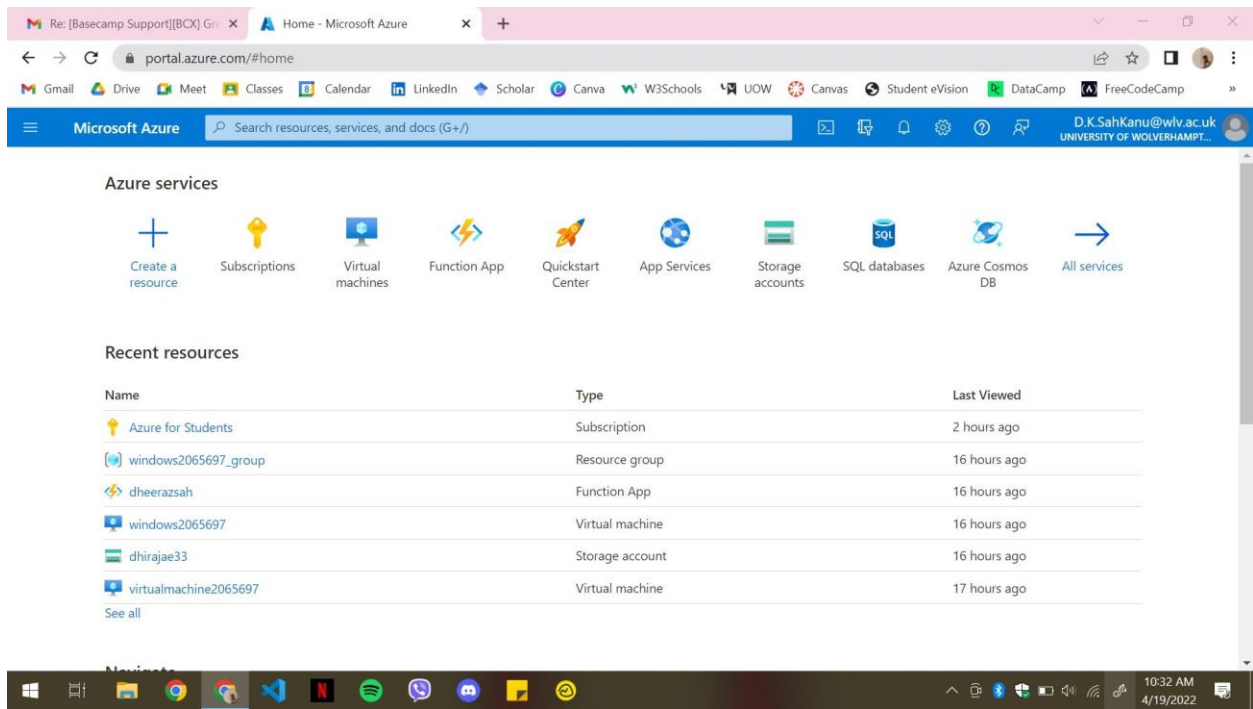
Step 1: Follow the link <https://azure.microsoft.com/> or search azure Microsoft in your web browser.



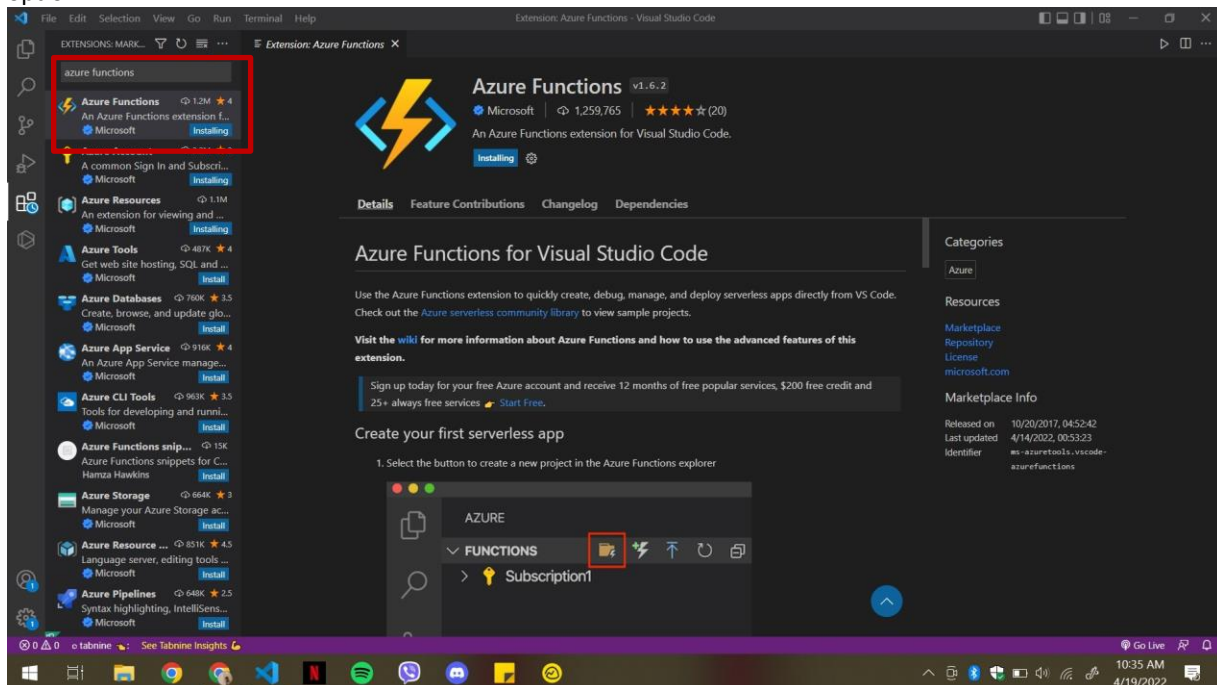
Step 2: Login into your azure account using university email id, so that you could use azure for students for free. I have already logged in using my university email.



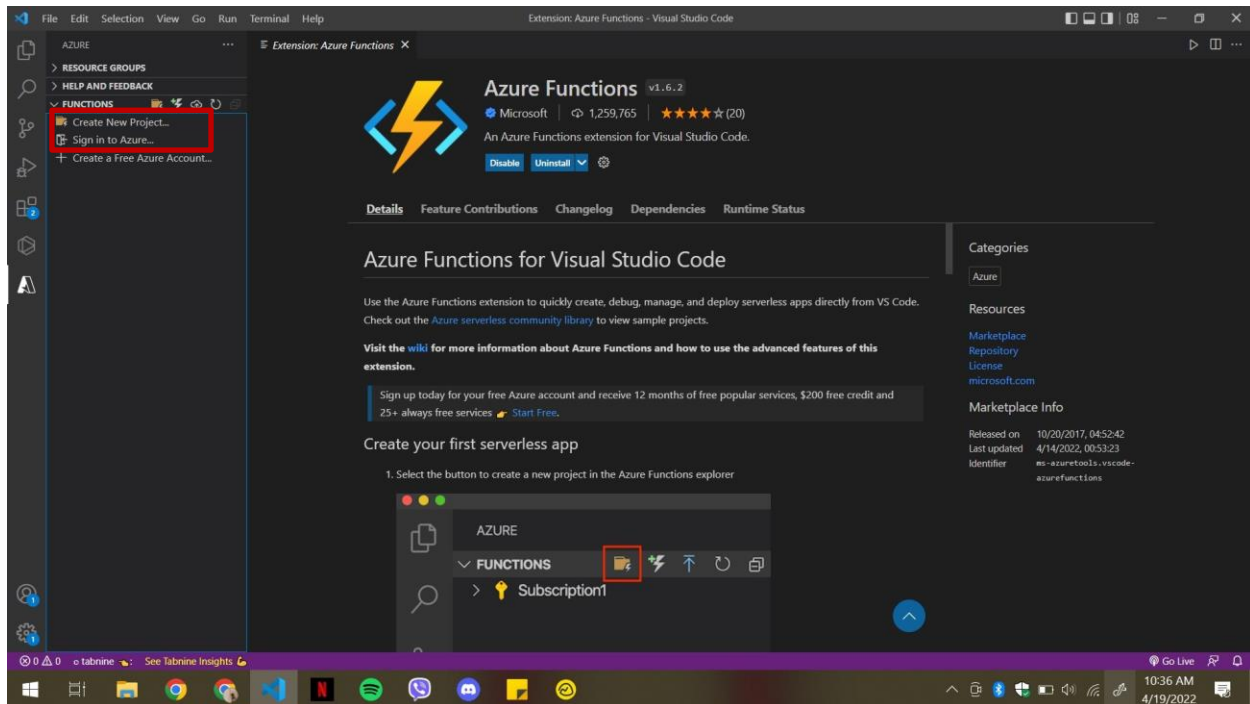
Step 3: After signing in to azure portal successfully, you will be redirected to the Azure Portal page. This is where we'll manage and track things like servers, subscriptions, virtual machines, and so on. You can see the recent resources which I have been using.



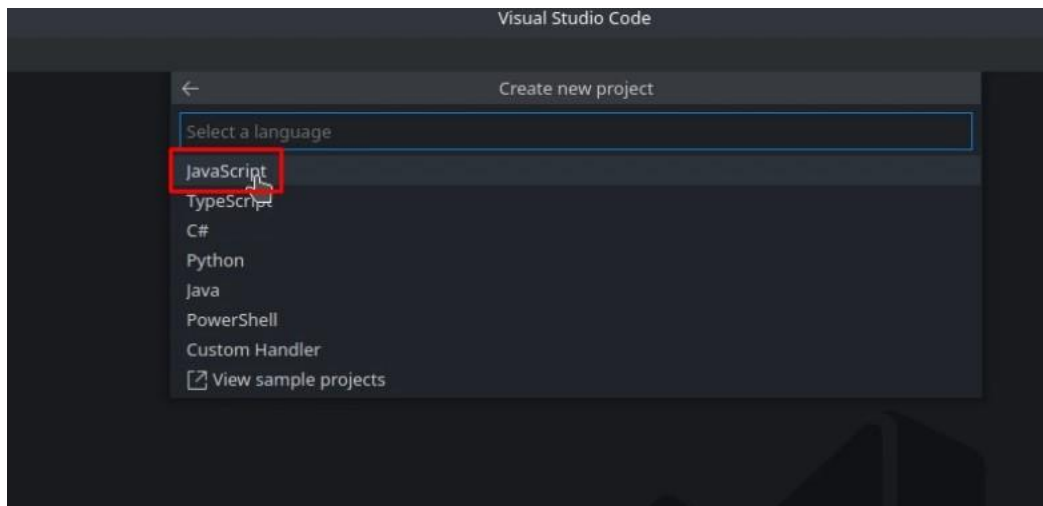
Step 4: Now to write, test, and deploy functions to Azure, azure functions extensions must be installed in Visual Studio Code. On the left side of Visual Studio Code, click on the cube-like icon. Then install the azure functions option.



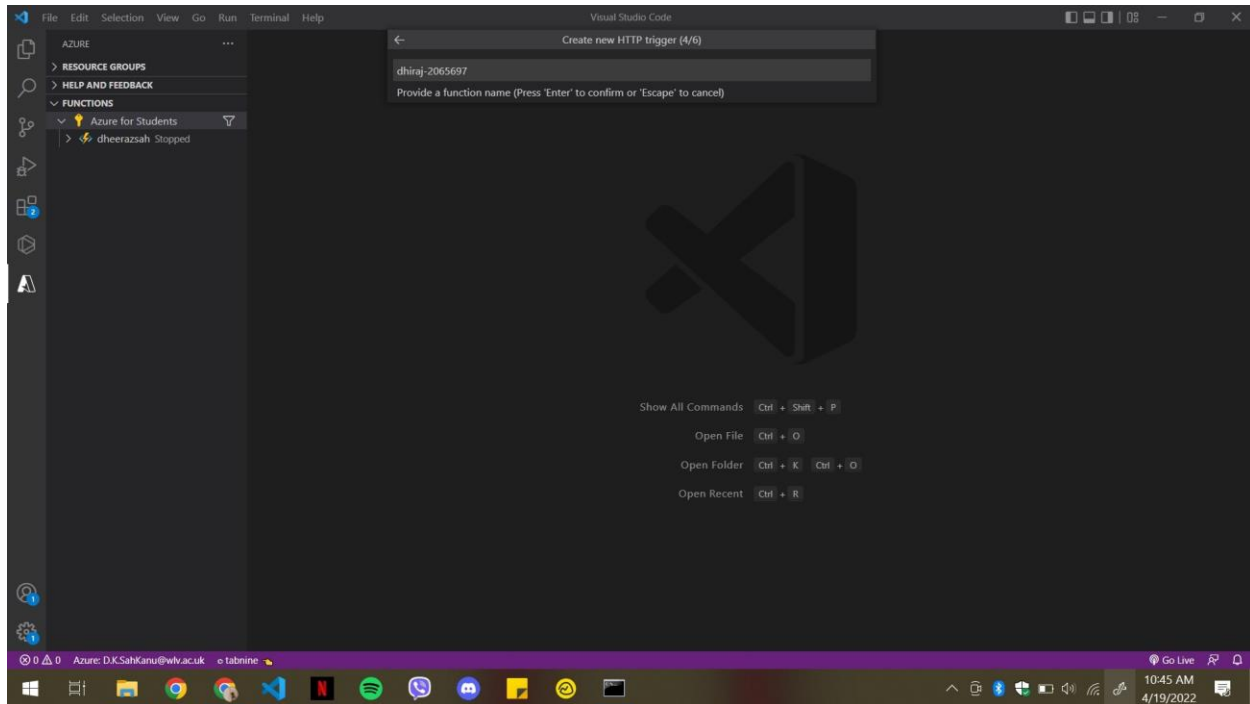
Step 5: Now, we will have to click on azure logo and click on sign in. I have already signed into my account here. You will be re-directed to Microsoft login page where you need to log in with your azure account. After signing in you need to click on create new project.



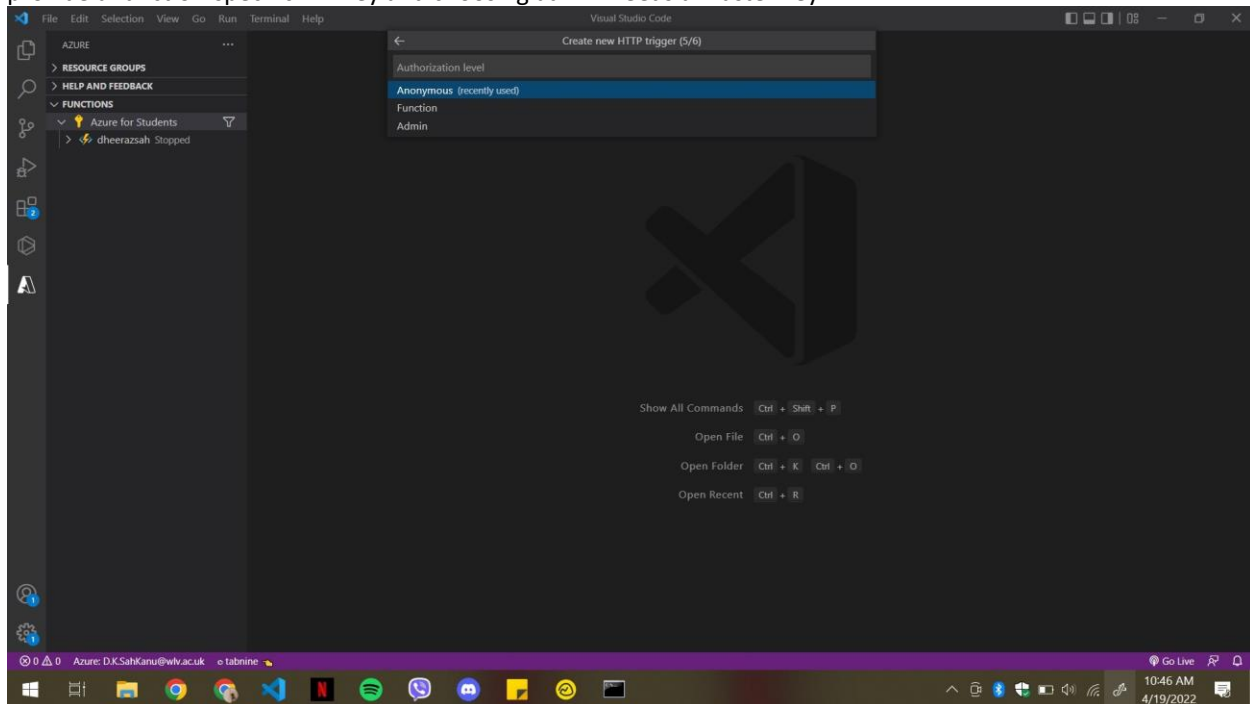
Step 6: Create a new project in the suitable directory, then select a language to create a function.



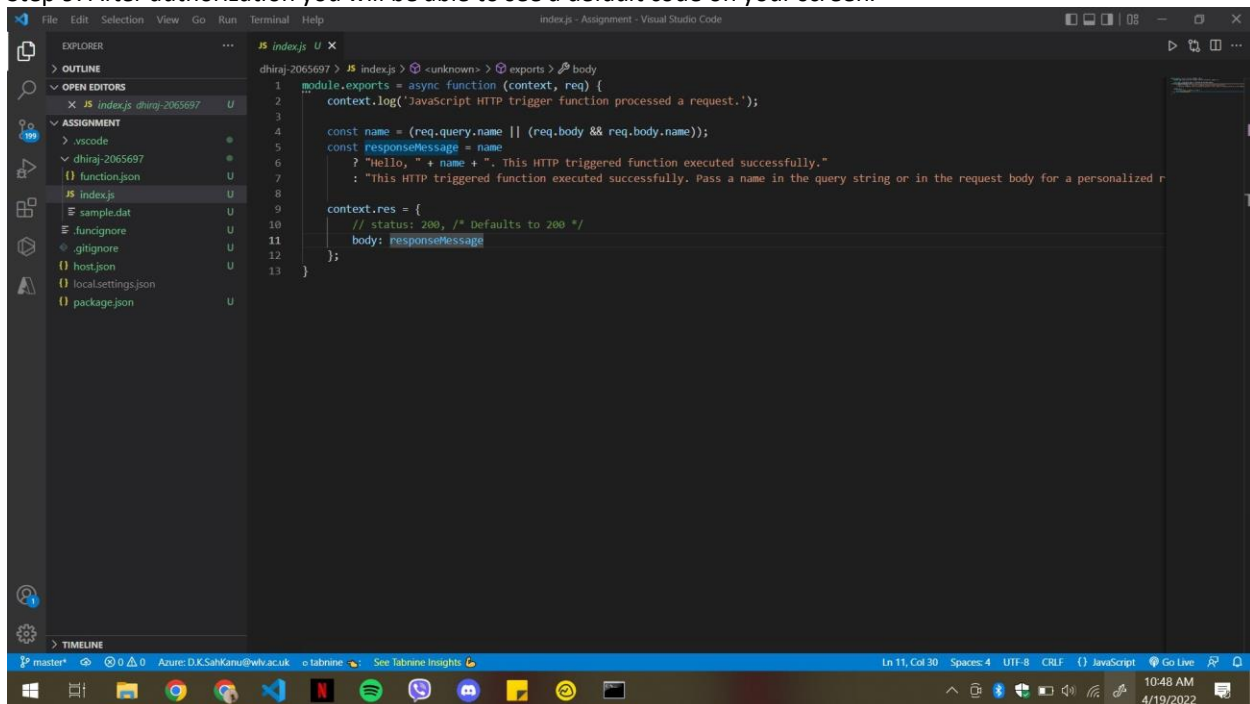
Step 7: Now you have to create a new trigger, you will see the list of triggers. For now, choose the HTTP Trigger. Trigger helps to run a function, I have created a trigger named dhiraj-2065697 already.



Step 8: Now you have to choose an authorization level. The authorization level must be chosen. The function's endpoint has to be accessed. If you choose anonymous API key is not needed, if you choose function, you must provide a function-specific API key and choosing admin needs a master key.



Step 9: After authorization you will be able to see a default code on your screen.



The screenshot shows the Visual Studio Code interface with the 'index.js' file open. The code is as follows:

```
1 module.exports = async function (context, req) {
2   context.log('JavaScript HTTP trigger function processed a request.');
```

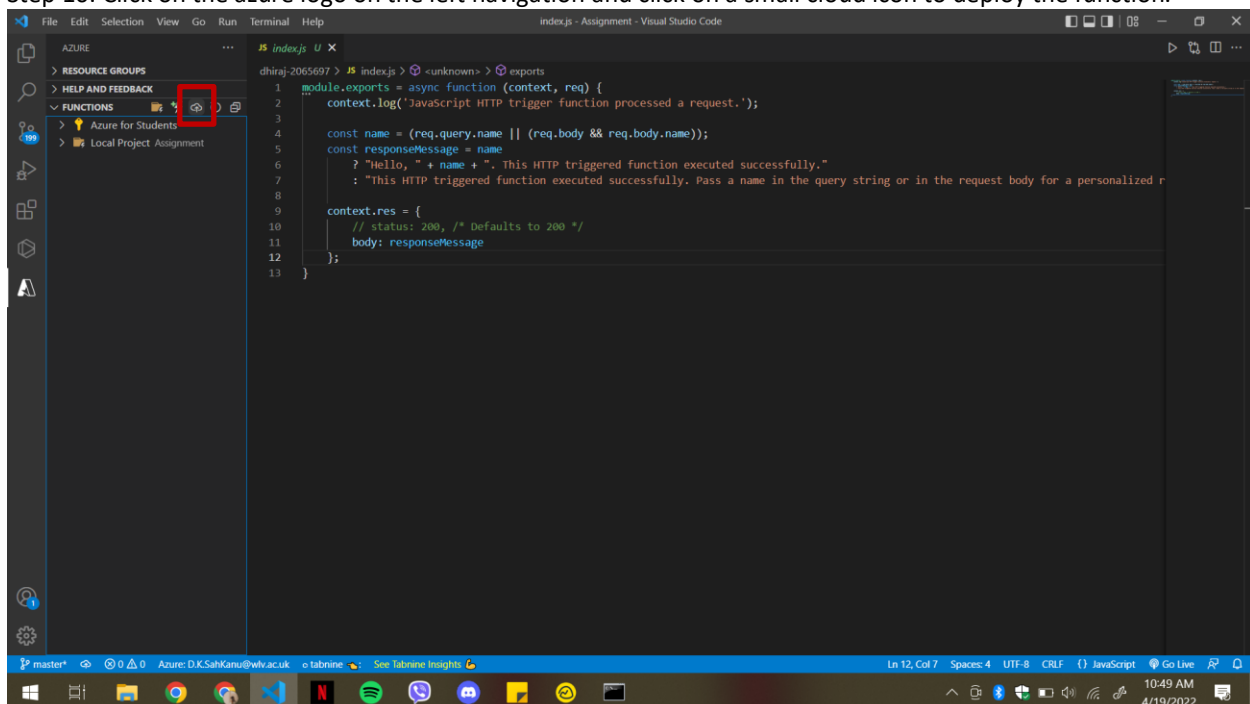
```
3
4   const name = (req.query.name || (req.body && req.body.name));
5   const responseMessage = name
6     ? "Hello, " + name + ". This HTTP triggered function executed successfully."
7     : "This HTTP triggered function executed successfully. Pass a name in the query string or in the request body for a personalized r
8
9   context.res = {
10     // status: 200, /* Defaults to 200 */
11     body: responseMessage
12   };
13 }
```

The left sidebar shows the 'EXPLORER' view with the following files listed:

- index.js
- function.json
- sample.dat
- funcignore
- .gitignore
- host.json
- local.settings.json
- package.json

The status bar at the bottom indicates the file is 'index.js' at line 11, column 30, with a status of 'Spaces: 4 UTF-8 CRLF JavaScript Go Live'.

Step 10: Click on the azure logo on the left navigation and click on a small cloud icon to deploy the function.



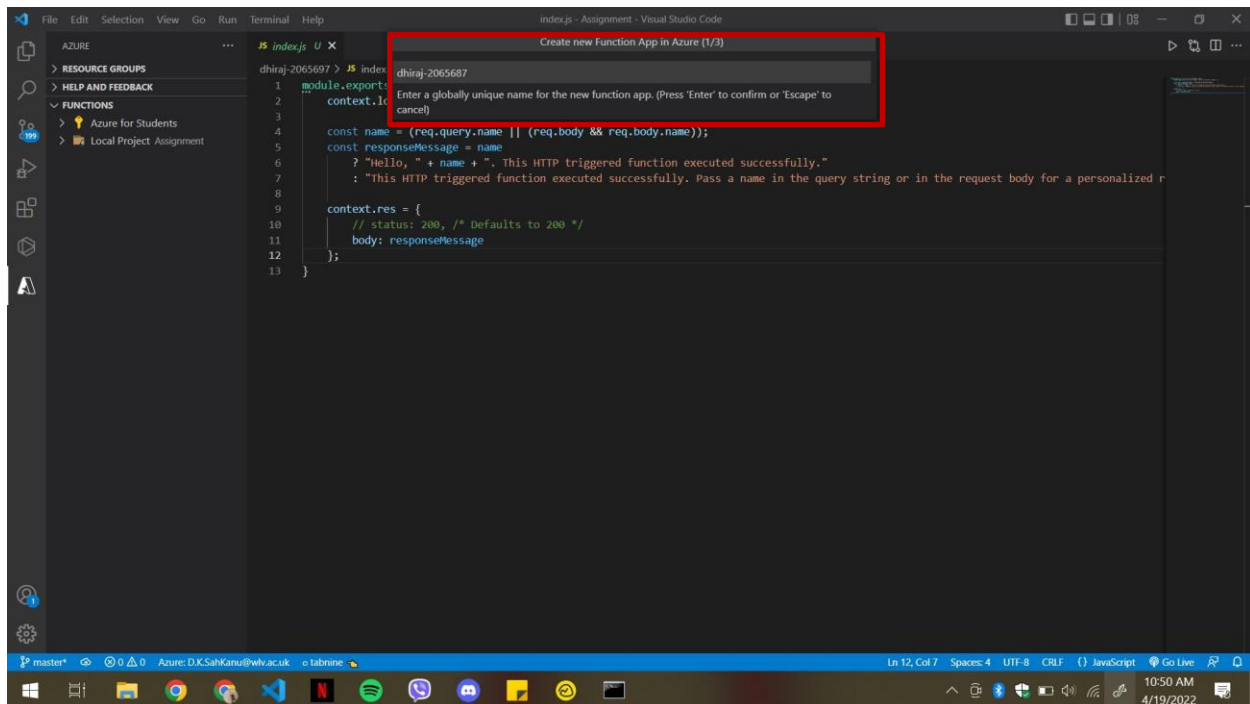
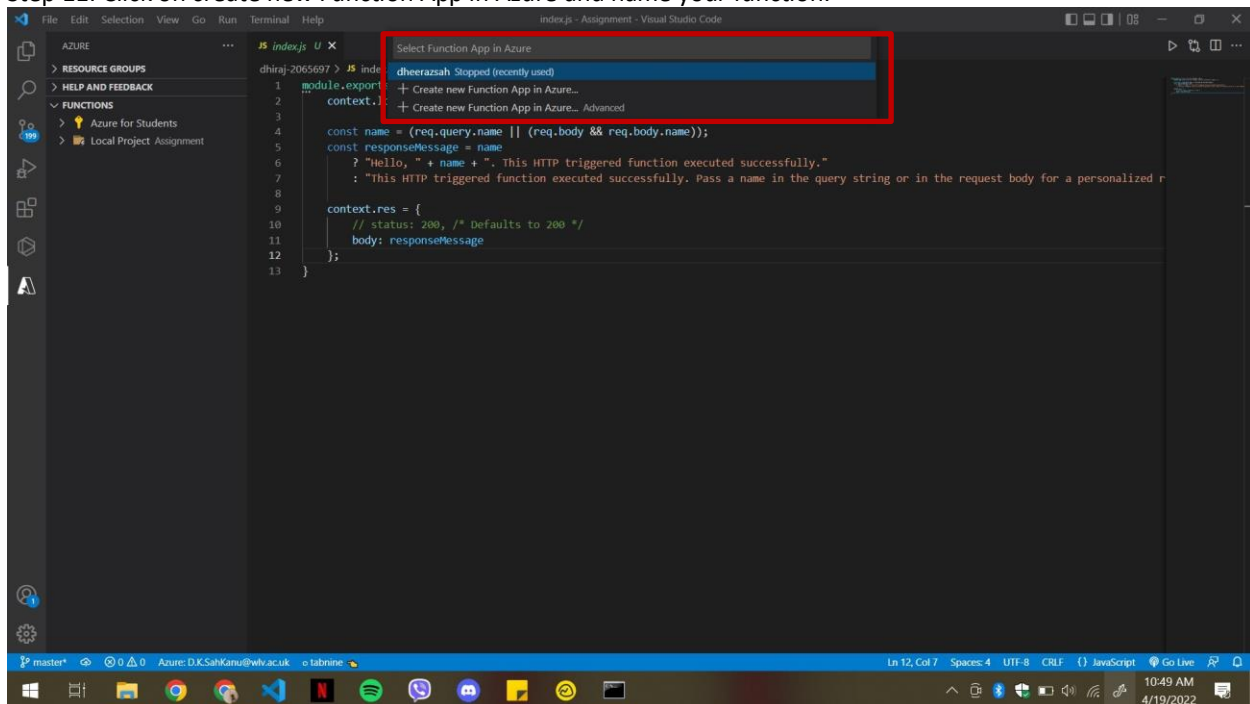
The screenshot shows the Visual Studio Code interface with the 'index.js' file open. The left sidebar now shows the 'AZURE' extension view. The 'FUNCTIONS' section is expanded, and a small cloud icon is highlighted with a red box. The code in the editor is the same as in the previous screenshot.

The left sidebar shows the 'AZURE' extension view with the following sections:

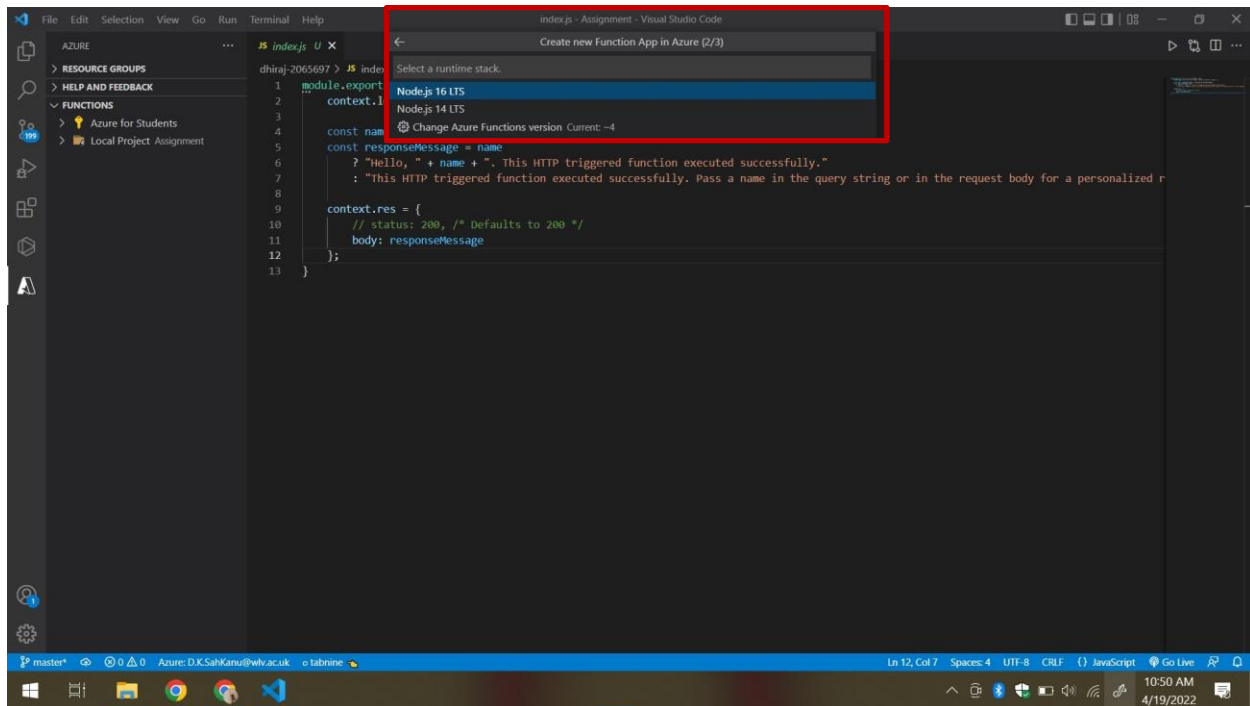
- RESOURCE GROUPS
- HELP AND FEEDBACK
- FUNCTIONS (highlighted with a red box)
- Local Project Assignment

The status bar at the bottom indicates the file is 'index.js' at line 12, column 7, with a status of 'Spaces: 4 UTF-8 CRLF JavaScript Go Live'.

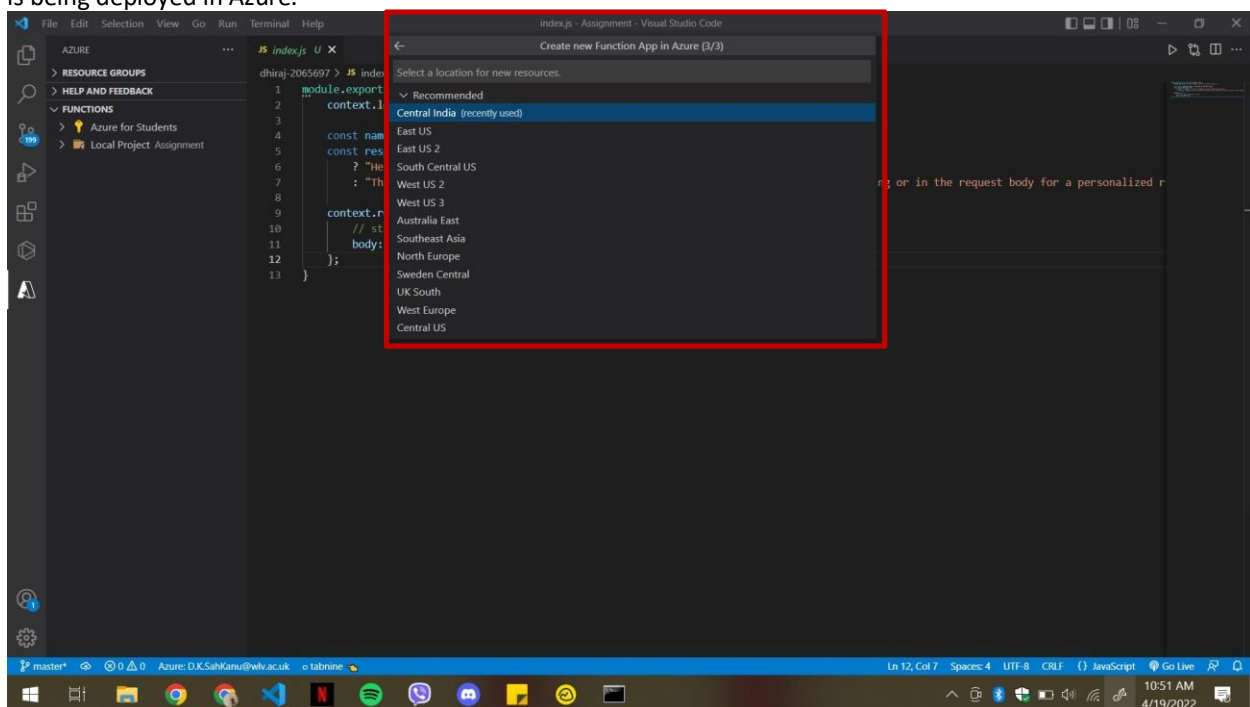
Step 11: Click on create new Function App in Azure and name your function.



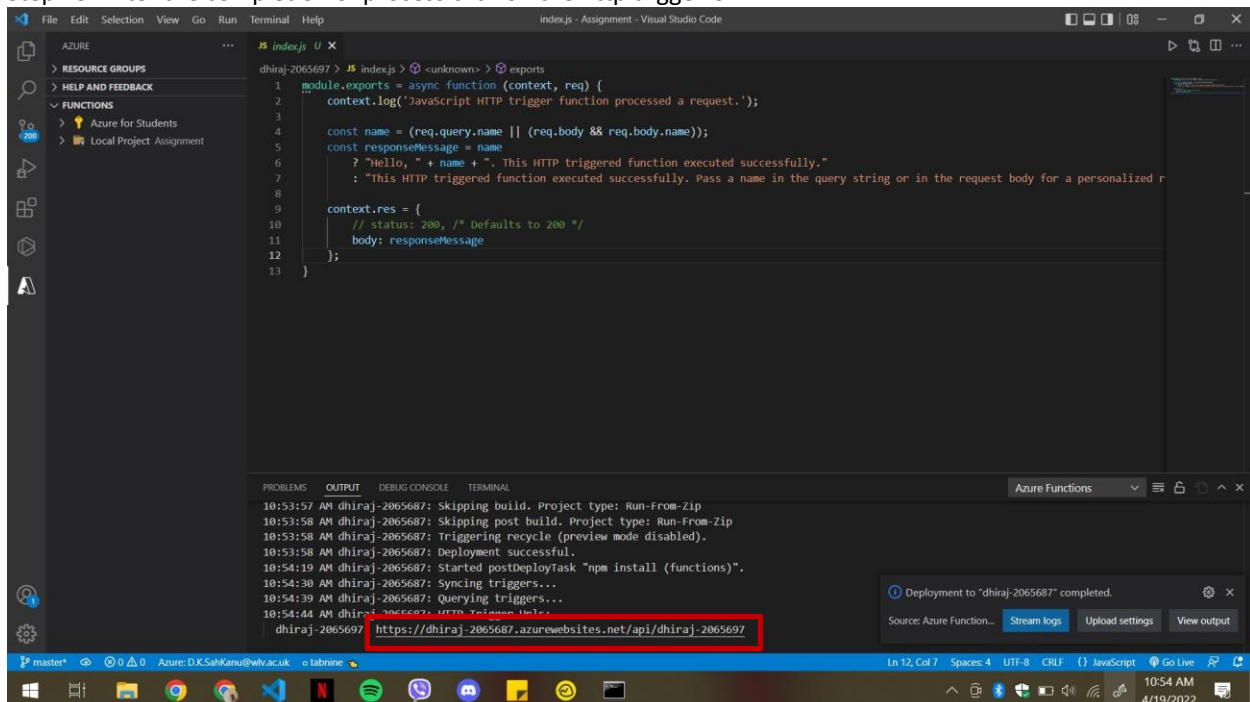
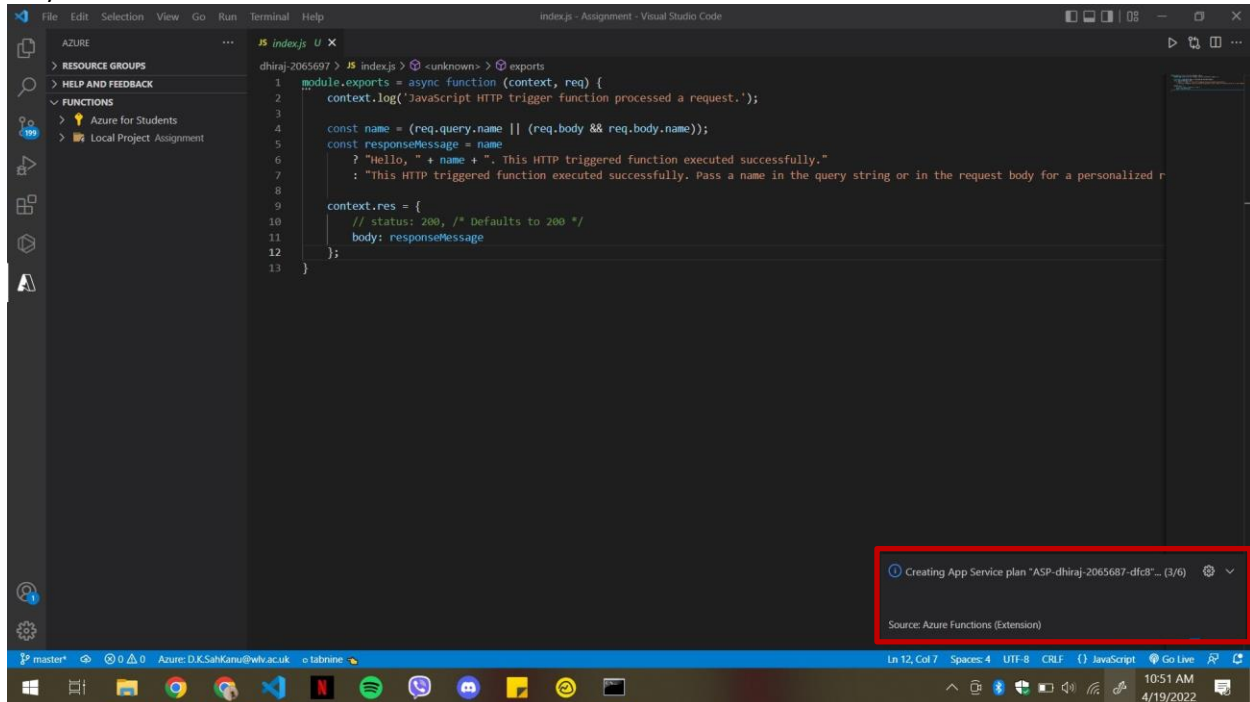
Step 12: Now select node.js 16 LTS as the runtime stack. The run time stack is a way for storing the program and handling local non-static variables.



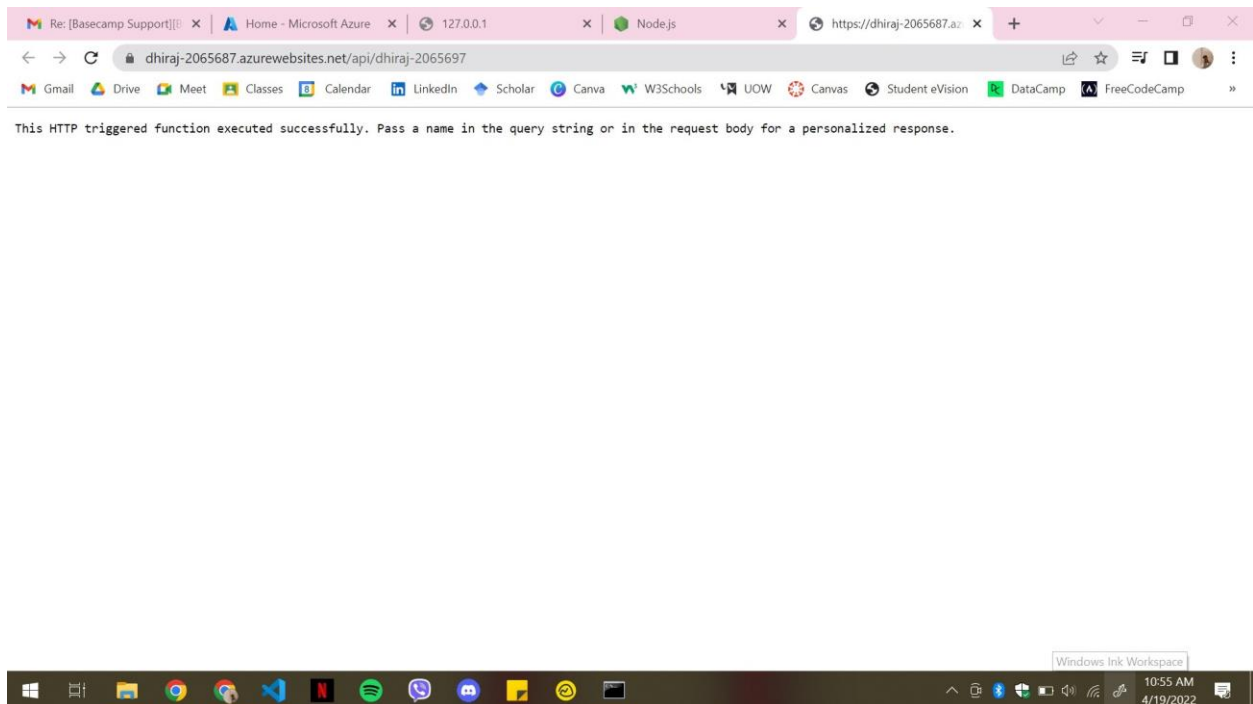
Step 13: Now choose a location, here I have chosen Central India. This will create your function in Central India and is being deployed in Azure.



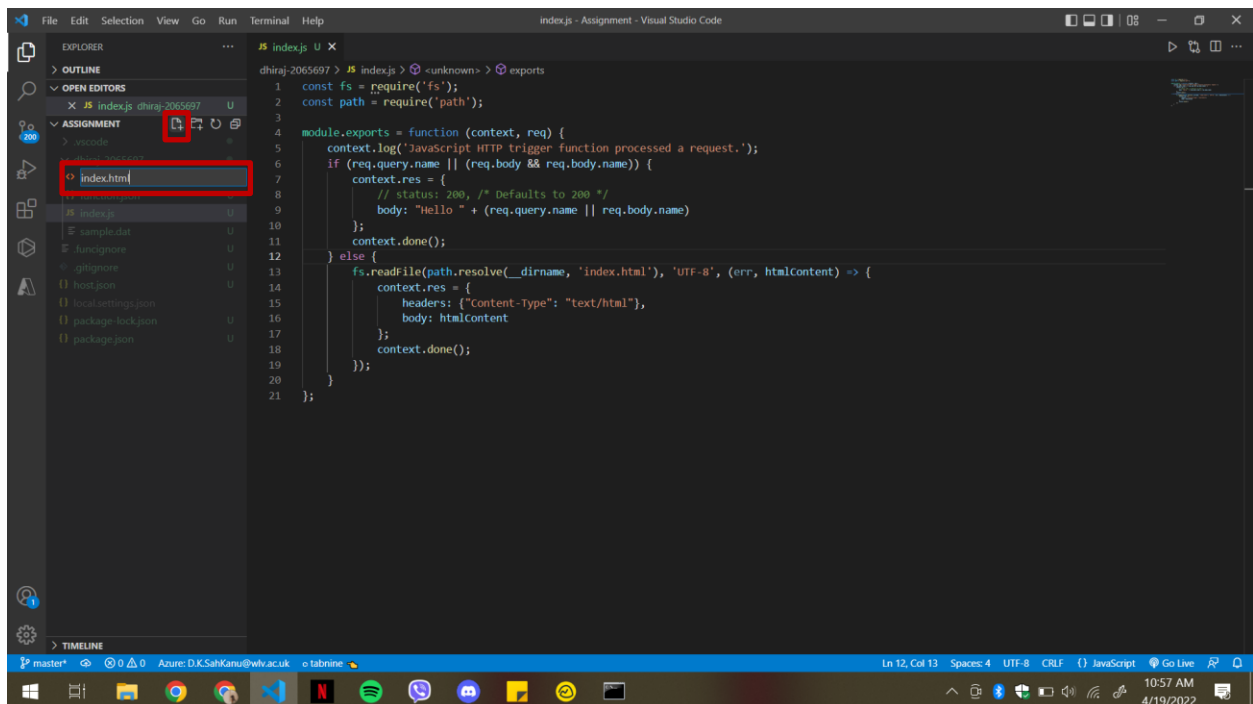
Step 14: Now here the app service plan is being created. In your case you will see creating resource group option for your function.



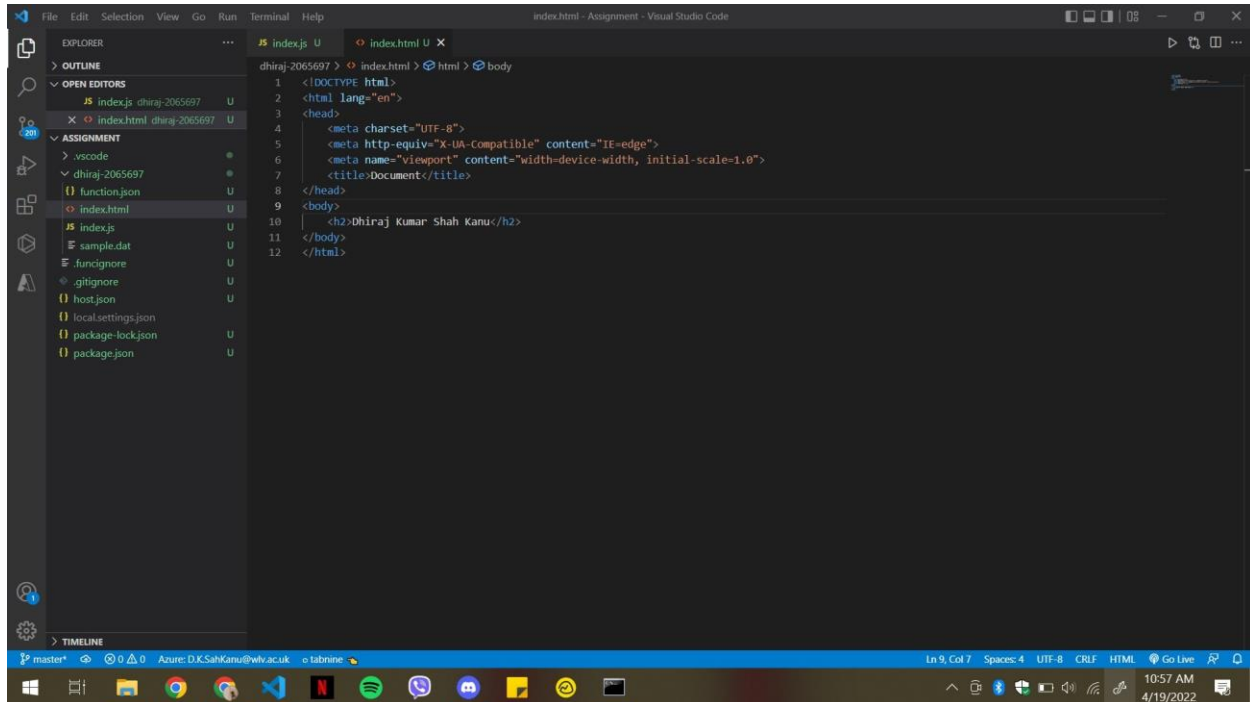
Step 16: When clicked on that URL, you will be redirected to this page which will show you 'This HTTP triggered function executed successfully'.



Step 17: Now you need to click on new file and then create an index.html file.

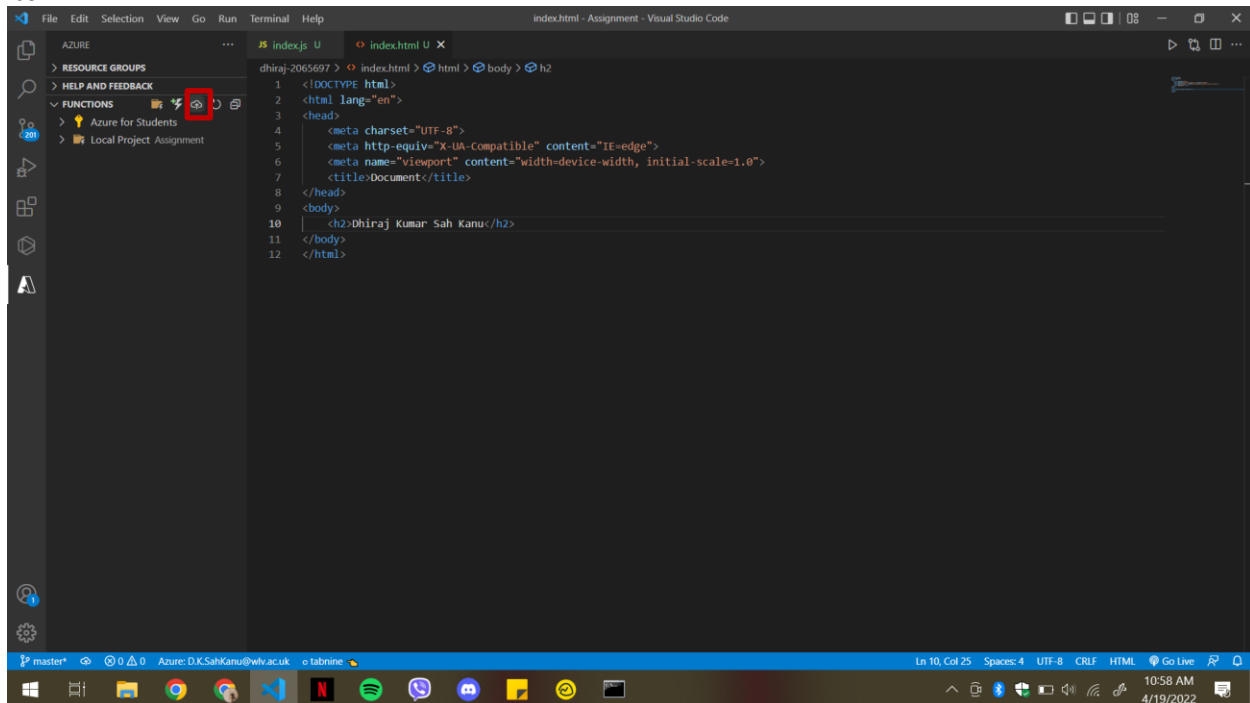


Step 18: Now simply create a html file using '!' and 'enter' this will provide you a body and simply add a text in h2 section.



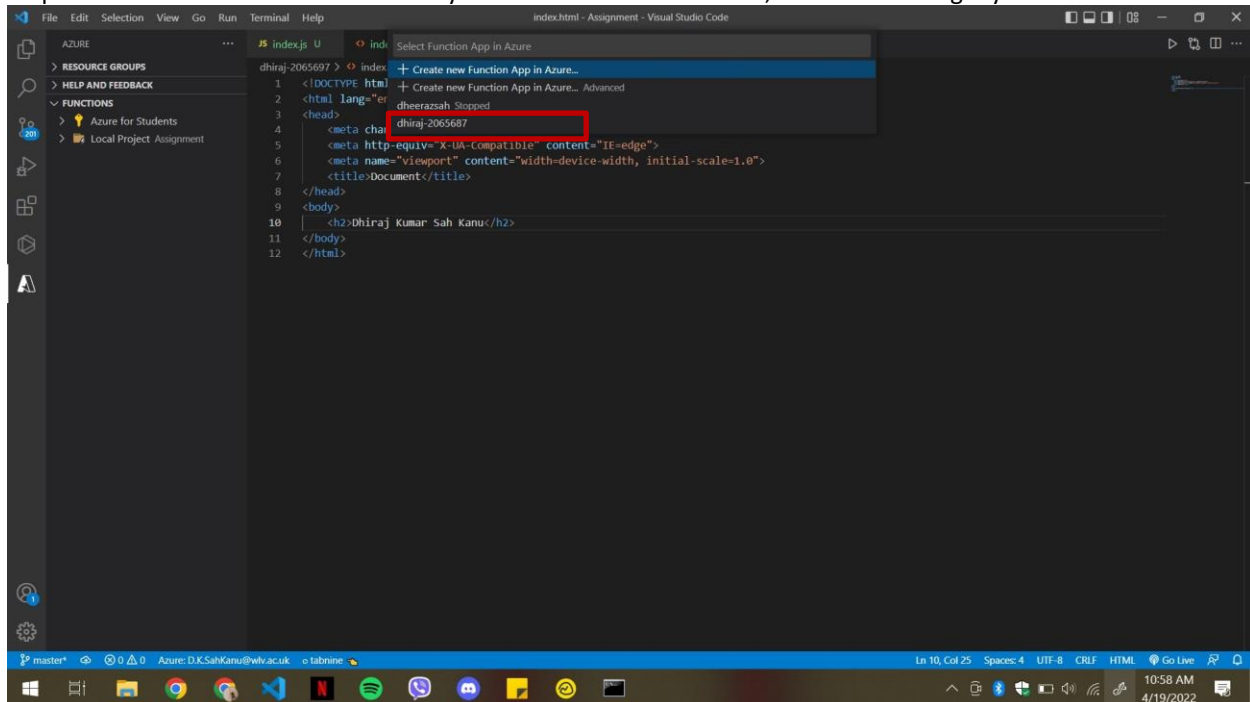
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10   <h2>Dhiraj Kumar Shah Kanu</h2>
11 </body>
12 </html>
```

Step 19: Now, click on azure icon on the left navigation and re-deploy to function app by clicking on this upload icon.

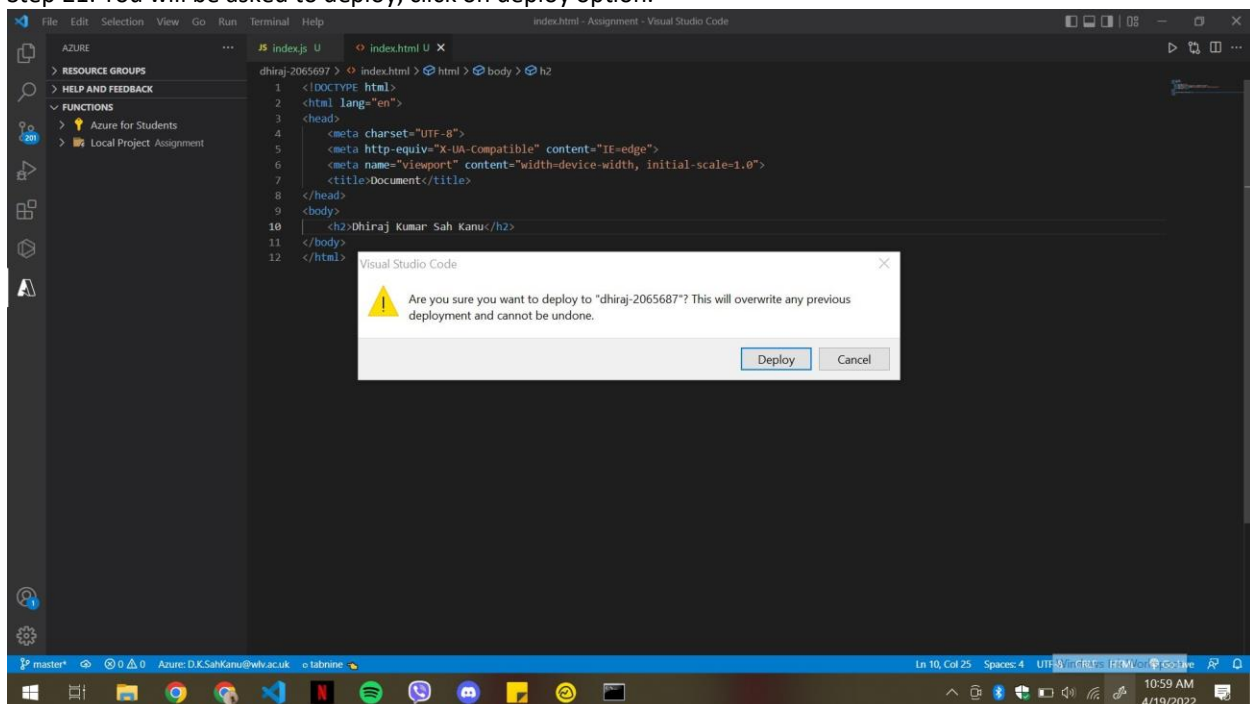


```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10   <h2>Dhiraj Kumar Sah Kanu</h2>
11 </body>
12 </html>
```

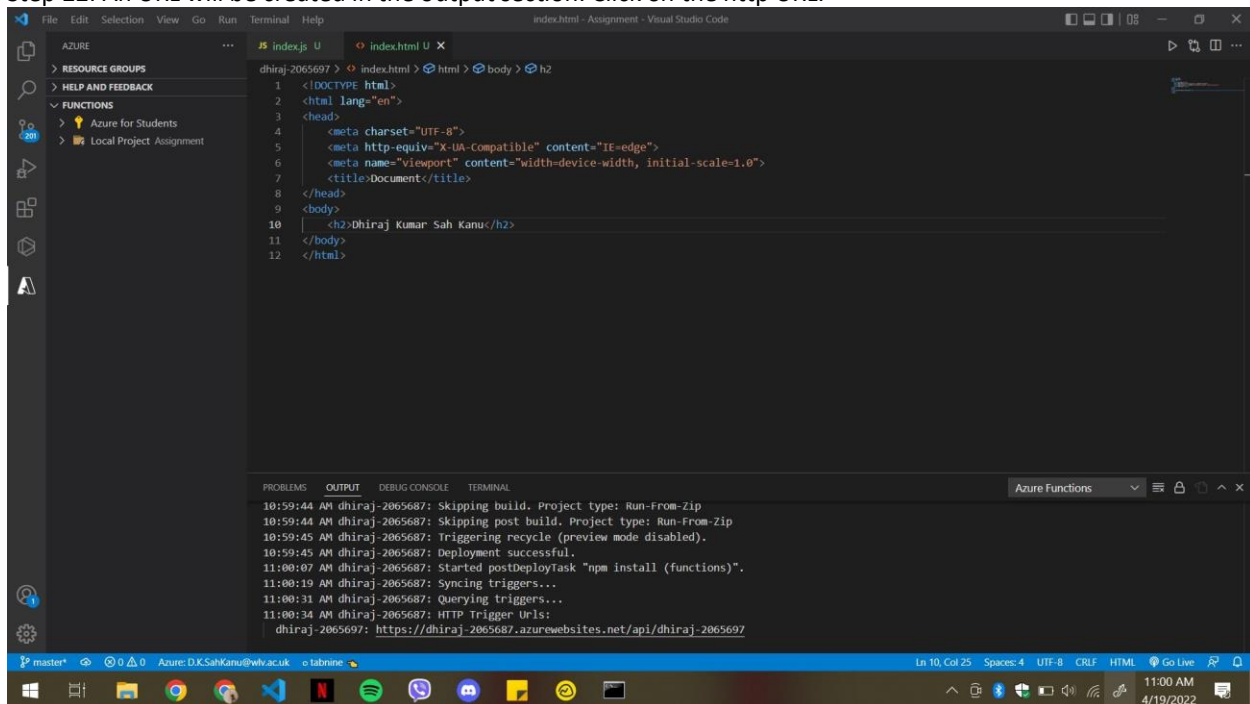
Step 20: Select the same function which you had created before. Here, I will be selecting my function.



Step 21: You will be asked to deploy, click on deploy option.



Step 22: An URL will be created in the output section. Click on the http URL.



Step 23: After following the link you will see your html file has been deployed.

