

ASSIGNMENT – 4

CLOUD APPLICATION DEVELOPMENT

Date	22 October 2022
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Student Roll Number	727719EUEC177
Maximum Marks	2 Marks

1. Create a bucket in IBM object storage.

The screenshot shows the IBM Cloud Object Storage console. The left sidebar contains navigation links: Cloud Object Storage, Storage instances, Cloud Object Storage-2z, Buckets, Integrations, Endpoints, Usage details, Service credentials, Connections, and Plan. The main content area is titled 'Buckets' and includes a search bar, a 'Create bucket' button, and a table of existing buckets.

Name	Public access	Location	Storage class	Created
vikram008	Yes	jp-tok	Smart Tier	2022-10-21 2:15 PM

Thus, a bucket named “vikram008” has been created.

2. Upload 5 images to IBM Object Storage and make it public. Write an HTML code to display all the 5 images.

The screenshot shows the IBM Cloud Object Storage console for the 'vikram008' bucket. The left sidebar is the same as in the previous screenshot. The main content area shows the bucket details and a list of uploaded objects.

Object name	Archived	Size	Last modified
earpods.jpg		10.4 KB	2022-10-21 2:25 PM
product2.jpg		24.2 KB	2022-10-21 2:25 PM
product3.webp		56.7 KB	2022-10-21 2:25 PM
product4.webp		13.3 KB	2022-10-21 2:25 PM
product5.webp		26.3 KB	2022-10-21 2:25 PM

HTML Code:

```
File Edit Selection View Go Run Terminal Help
index.html - Assignment 4 - Visual Studio Code

EXPLORER
  app.py
  index.html
  style.css
  templates
  _pycache_
  templates
    index.html
    style.css
  app.py

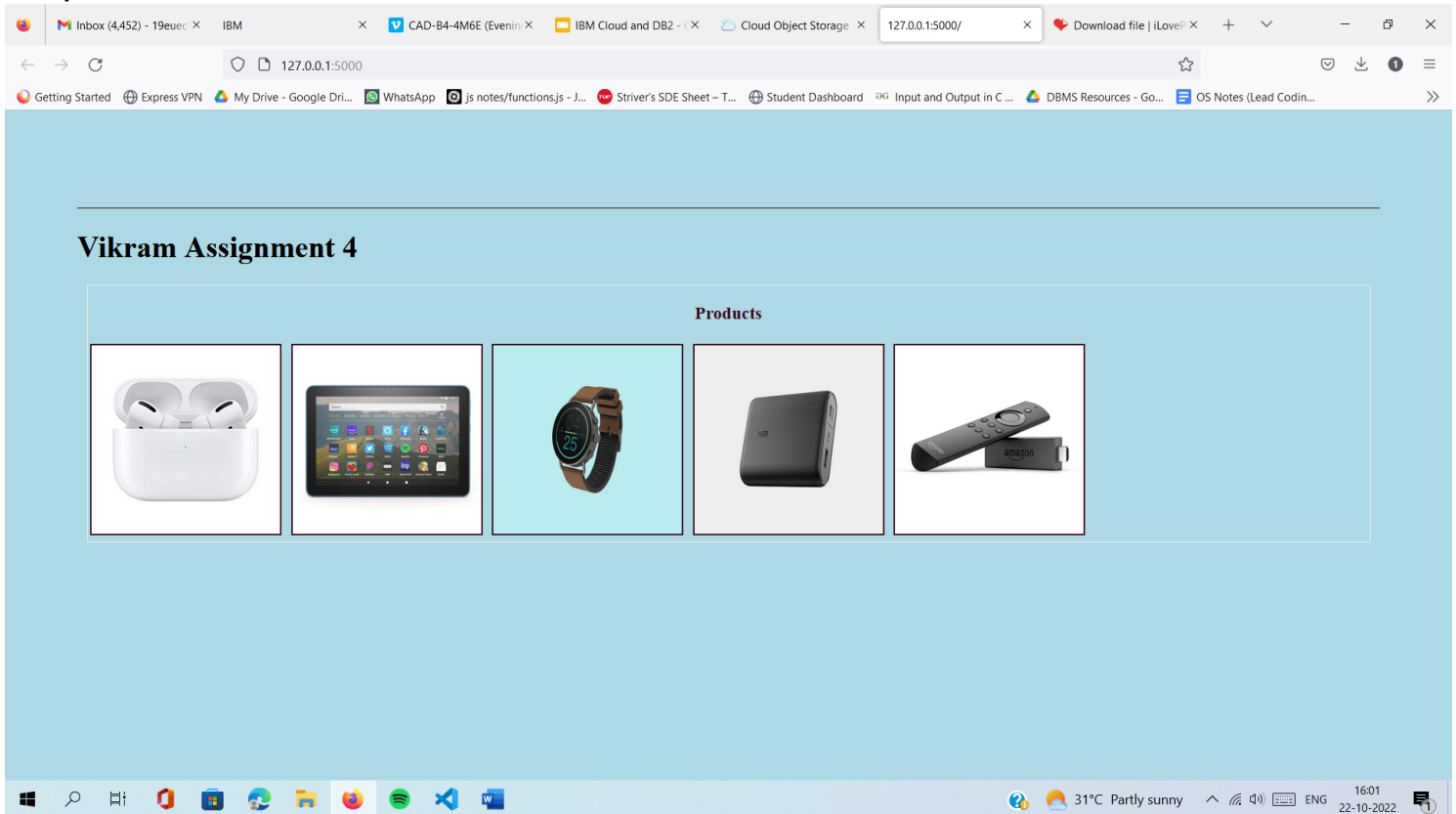
index.html
1
2
3
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18
19
20

templates > index.html > html > body > div > img.imgdiv
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<br><hr>
<h1>Vikram Assignment 4 </h1>
<link rel="stylesheet" type="text/css" href="https://vikram008.s3.jp-tok.cloud-object-storage.appdomain.cloud/style.css"/>
<doctype html>
<html>
  <body>
    <div style="border: 1px solid #E0E0E0;margin:10px;">
      <h3>Products</h3>
      
      
      
      
      
    </div>
  </body>
</html>

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
PS C:\Users\91936\Documents\IBM MALAYATHIRAN\Assignments\Assignment 4> flask --debug run
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 949-063-232
Retrieving bucket contents from: vikram008
Item: earpods.jpg (10610 bytes).
Item: product2.jpg (24803 bytes).
Item: product3.webp (58022 bytes).
Item: product4.webp (13666 bytes).
Item: product5.webp (26960 bytes).
127.0.0.1 - - [22/Oct/2022 15:35:37] "GET / HTTP/1.1" 200 -
Retrieving bucket contents from: vikram008
Item: earpods.jpg (10610 bytes).
Item: product2.jpg (24803 bytes).
```

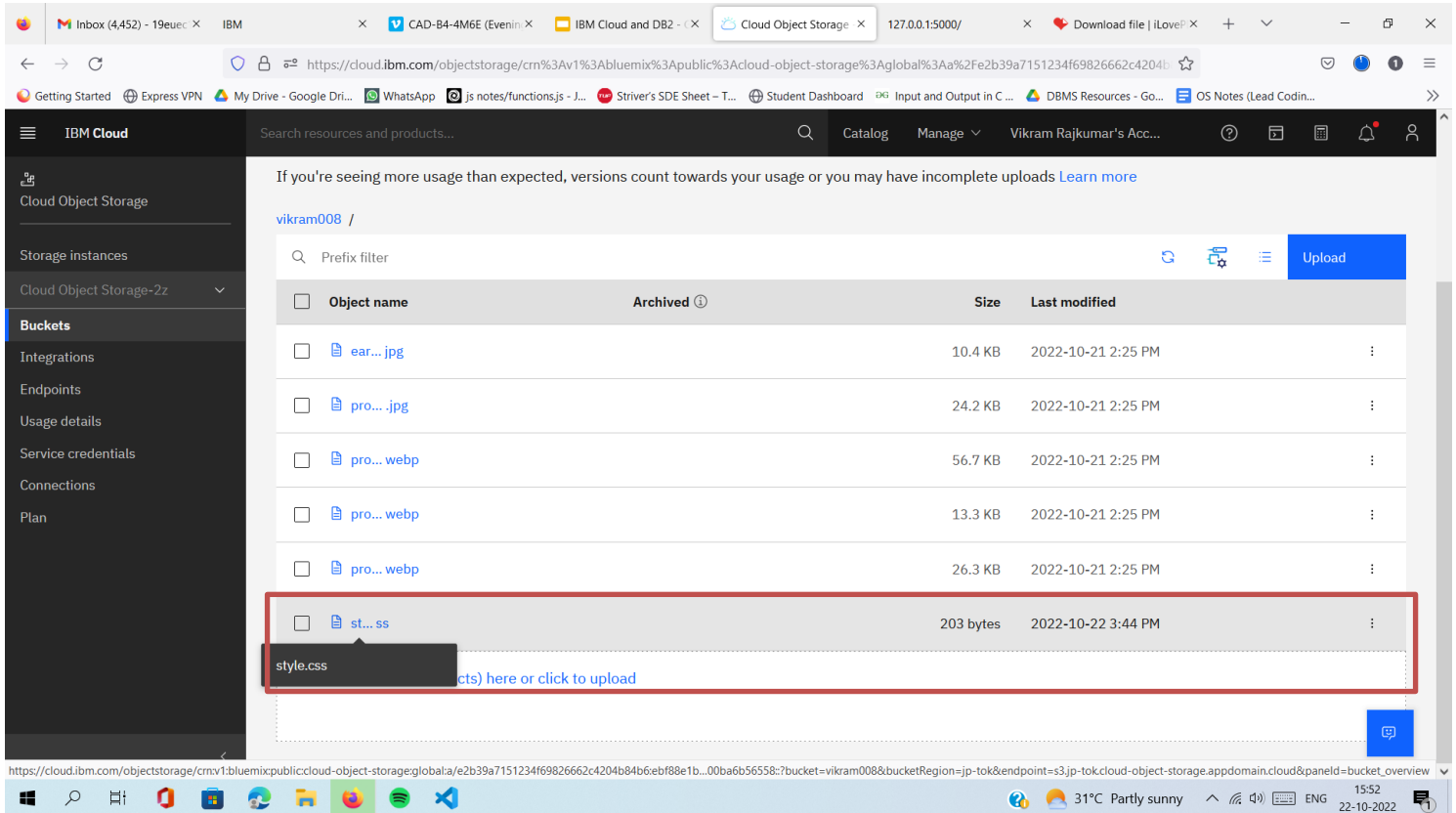
Output:



File name: index.html, app.py

The above mentioned files have been uploaded in GitHub.

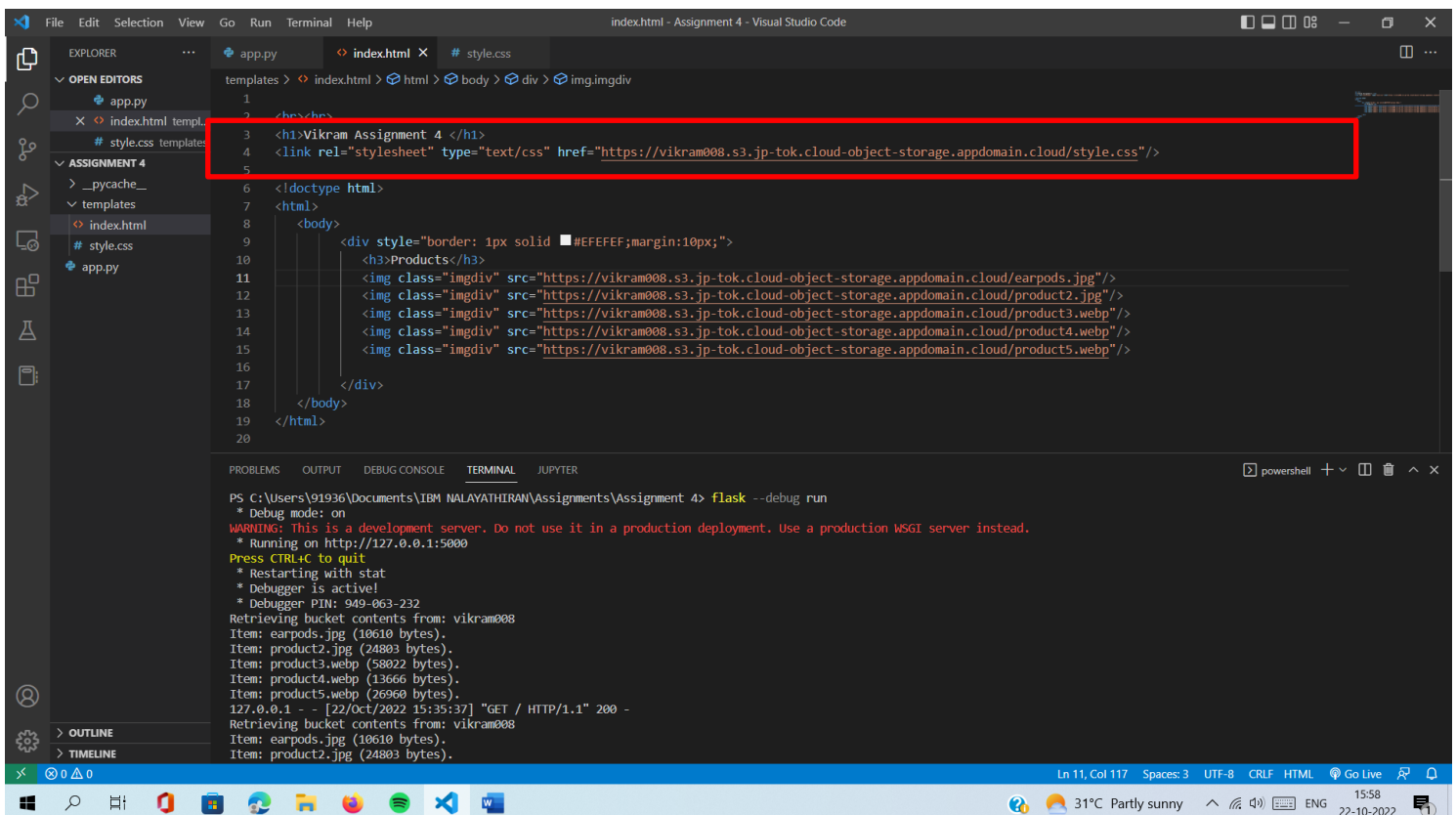
3. Upload a CSS page to the object storage and use the same page in your HTML code.



The screenshot shows the IBM Cloud Object Storage interface. The left sidebar contains navigation options: Cloud Object Storage, Storage instances, Buckets, Integrations, Endpoints, Usage details, Service credentials, Connections, and Plan. The main area displays the contents of the bucket 'vikram008'. A table lists the objects with columns for Object name, Archived status, Size, and Last modified. The file 'style.css' is highlighted with a red box, and a tooltip shows its name and size (203 bytes). The table data is as follows:

Object name	Archived	Size	Last modified
ear...jpg		10.4 KB	2022-10-21 2:25 PM
pro...jpg		24.2 KB	2022-10-21 2:25 PM
pro...webp		56.7 KB	2022-10-21 2:25 PM
pro...webp		13.3 KB	2022-10-21 2:25 PM
pro...webp		26.3 KB	2022-10-21 2:25 PM
style.css		203 bytes	2022-10-22 3:44 PM

HTML Code:



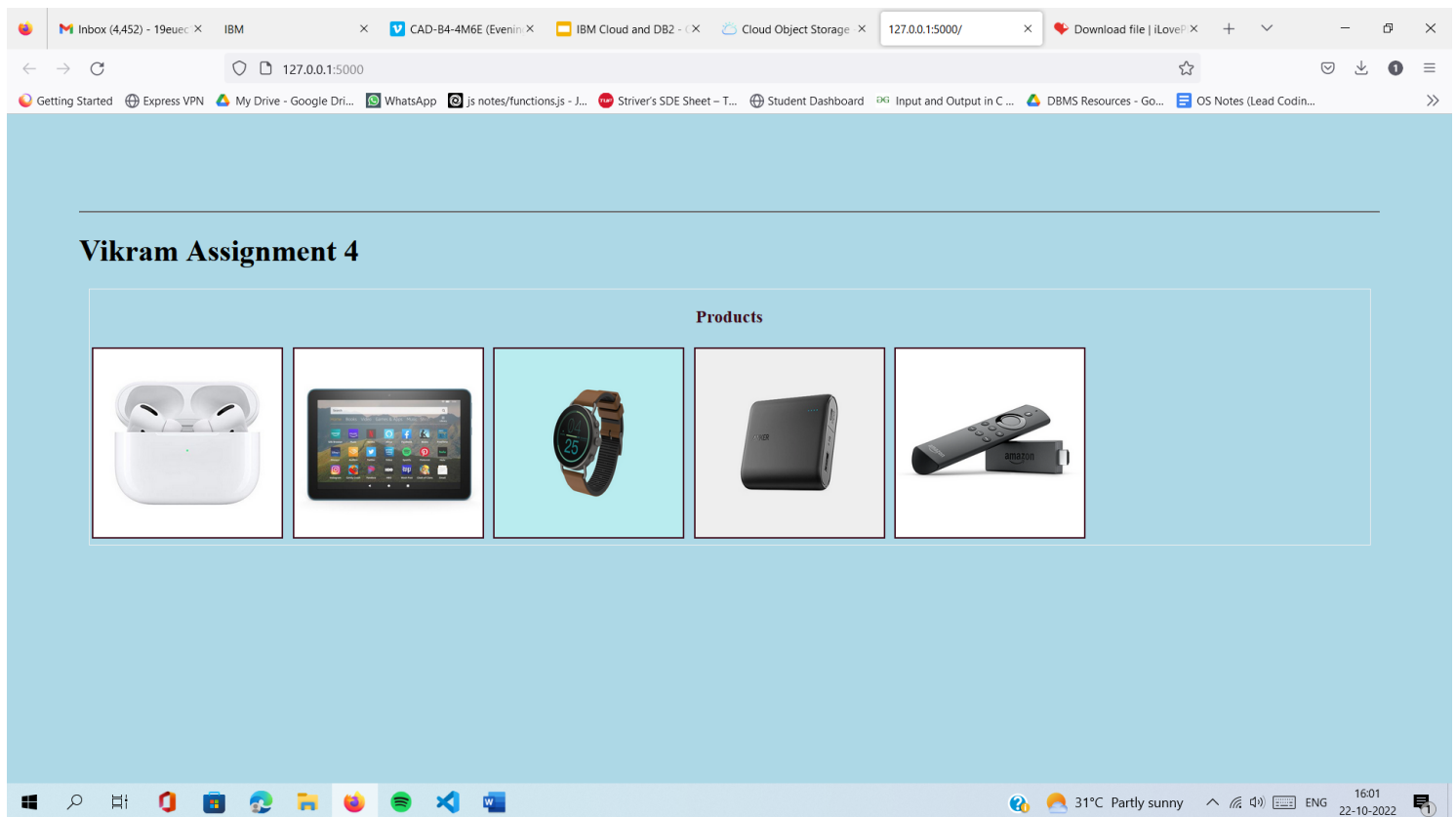
The screenshot shows the Visual Studio Code editor with the 'index.html' file open. The HTML code is as follows:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <link rel="stylesheet" type="text/css" href="https://vikram008.s3.jp-tok.cloud-object-storage.appdomain.cloud/style.css"/>
5 </head>
6 <body>
7 <div style="border: 1px solid #E0E0E0; margin: 10px;">
8 <h3>Products</h3>
9 <div class="imgdiv" src="https://vikram008.s3.jp-tok.cloud-object-storage.appdomain.cloud/earpods.jpg"/>
10 <div class="imgdiv" src="https://vikram008.s3.jp-tok.cloud-object-storage.appdomain.cloud/product2.jpg"/>
11 <div class="imgdiv" src="https://vikram008.s3.jp-tok.cloud-object-storage.appdomain.cloud/product3.webp"/>
12 <div class="imgdiv" src="https://vikram008.s3.jp-tok.cloud-object-storage.appdomain.cloud/product4.webp"/>
13 <div class="imgdiv" src="https://vikram008.s3.jp-tok.cloud-object-storage.appdomain.cloud/product5.webp"/>
14 </div>
15 </body>
16 </html>
```

The terminal output shows the following:

```
PS C:\Users\91936\Documents\IBM MALAYATHIRAN\Assignments\Assignment 4> flask --debug run
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 949-063-232
Retrieving bucket contents from: vikram008
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127.0.0.1 - - [22/Oct/2022 15:35:37] "GET / HTTP/1.1" 200 -
Retrieving bucket contents from: vikram008
Item: earpods.jpg (10610 bytes).
Item: product2.jpg (24803 bytes).
```

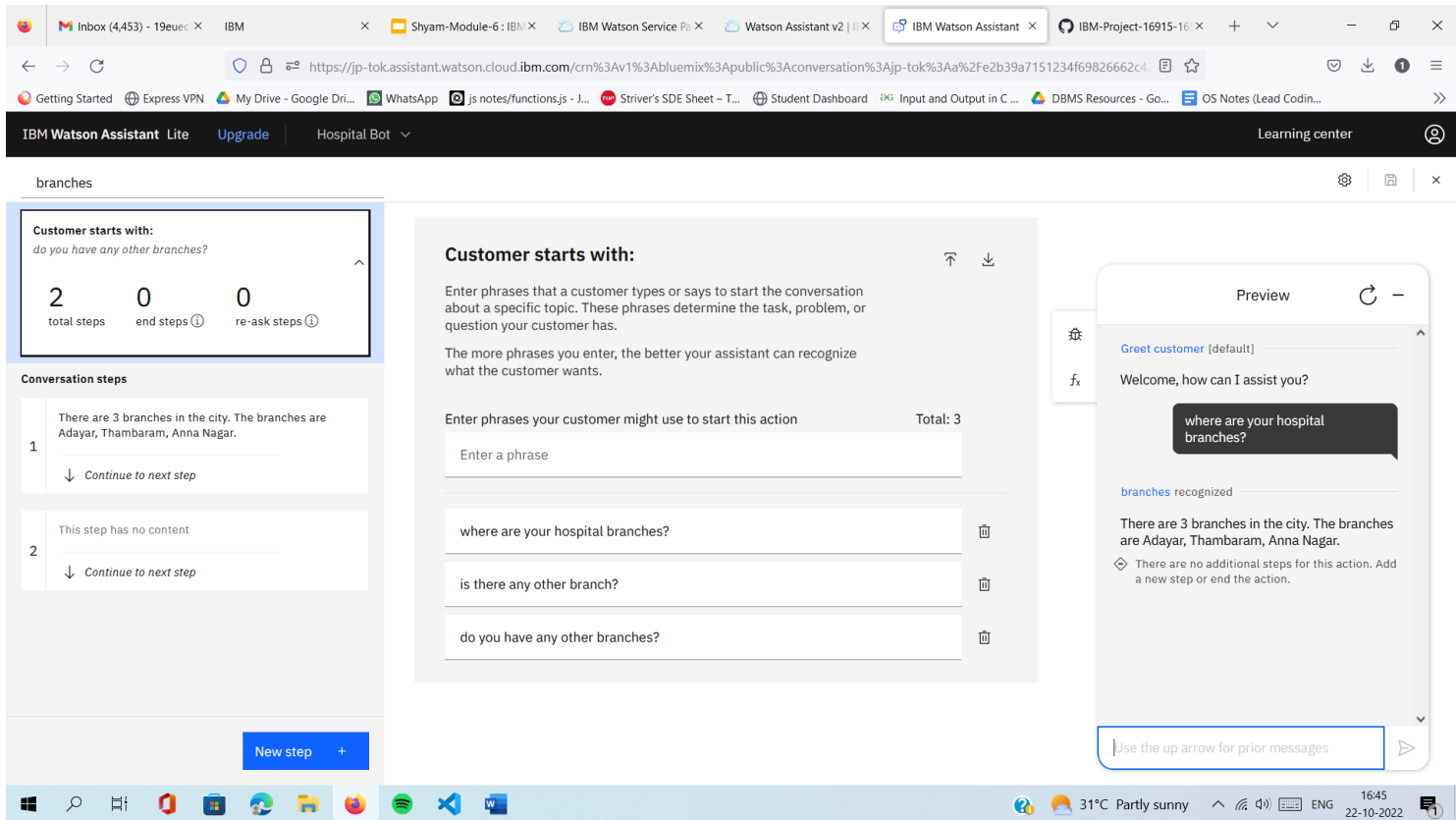
Output:



File name: index.html, app.py

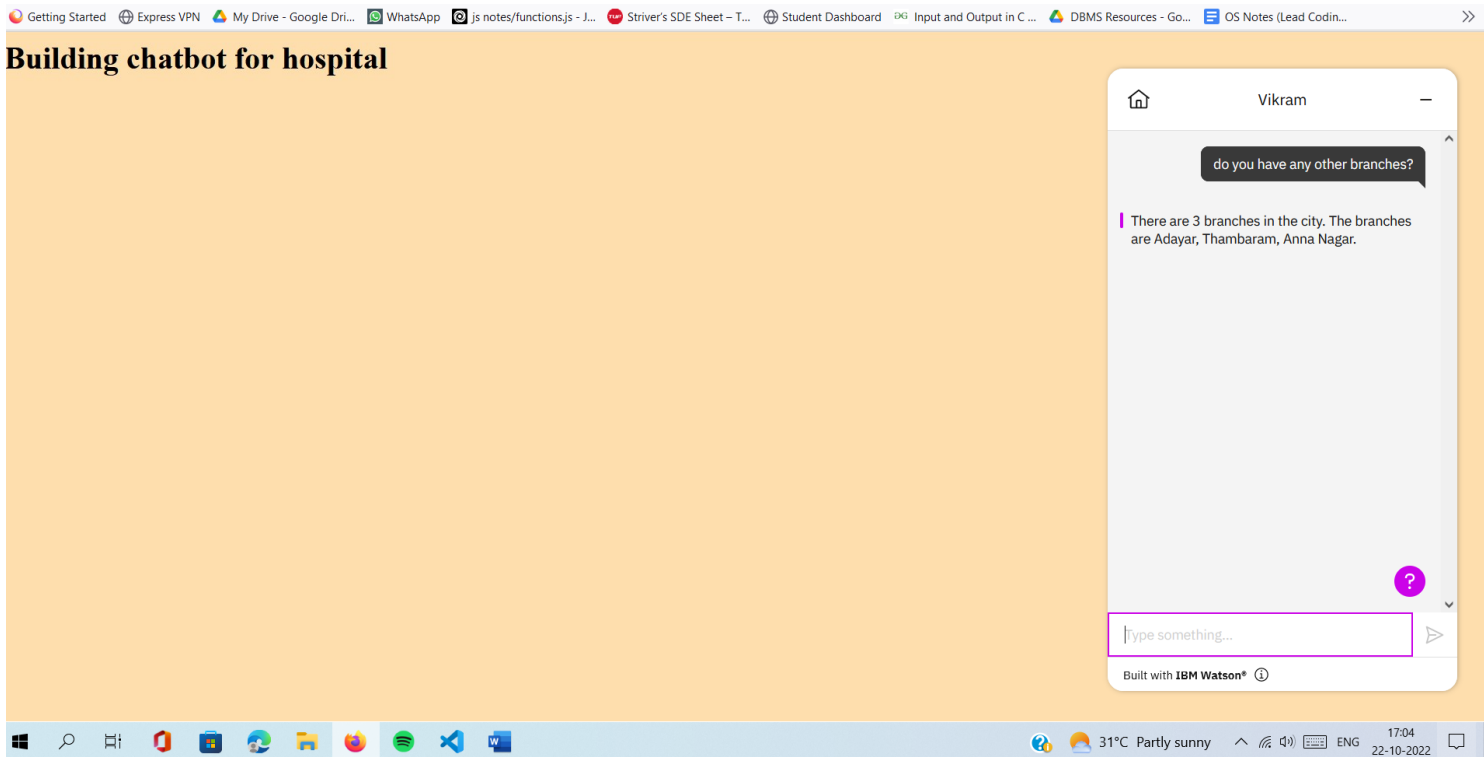
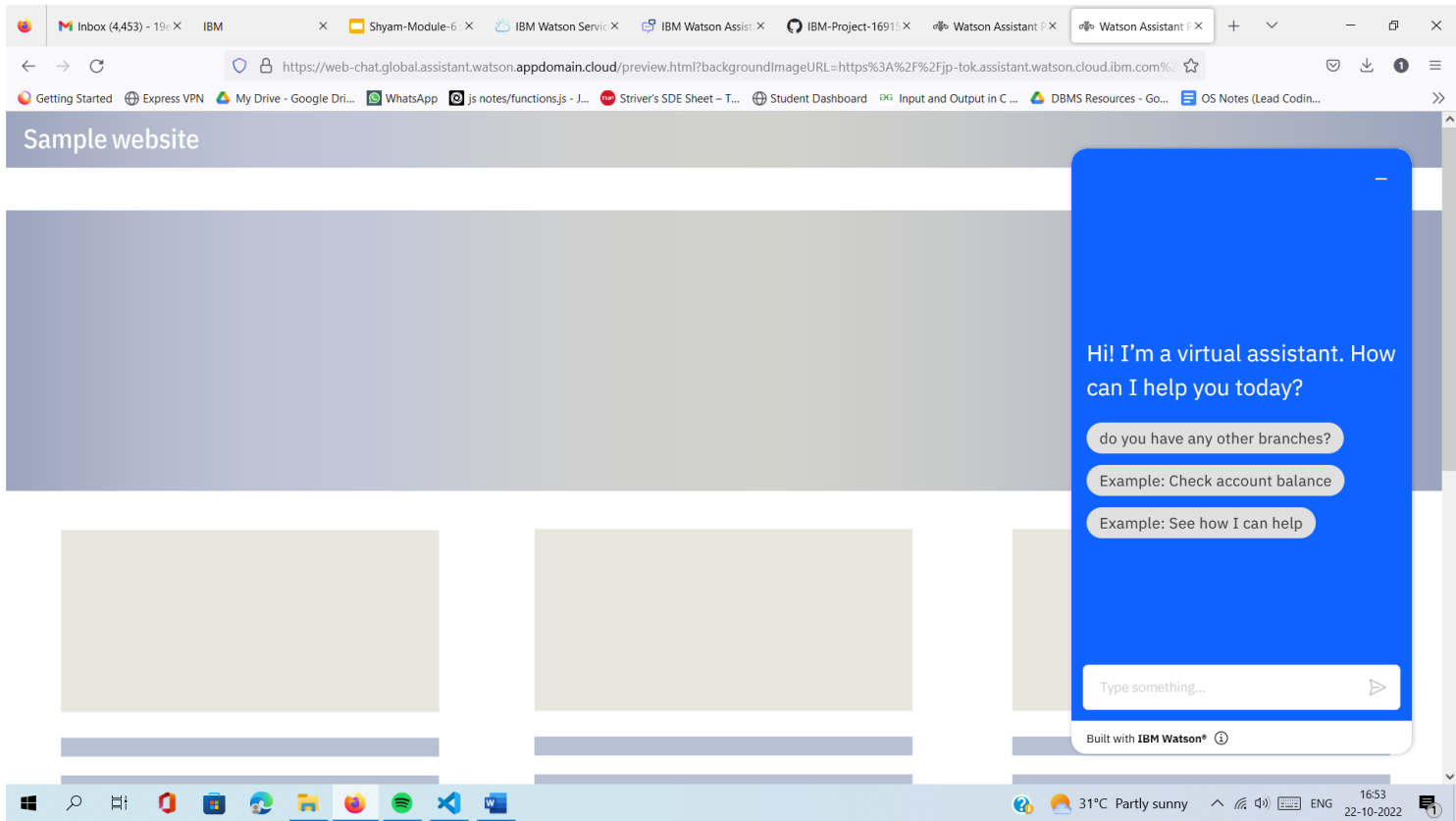
The above mentioned files have been uploaded in GitHub.

4. Design a chatbot using IBM Watson assistant for hospital. For e.g., user comes with query to know the branches for that hospital in your city. Submit the web URL of that chatbot as an assignment



URL:

<https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageURL=https%3A%2F%2Fjp-tok.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-8b7088cb-91c0-4a4e-a4e0-f1de720e232a%3A%3Ad2cf45cb-81b5-4a32-ba0a-895d8ab1cc93&integrationID=d927eeeb-0383-4ca0-acdc-e6d829b857f4®ion=jp-tok&serviceInstanceID=8b7088cb-91c0-4a4e-a4e0-f1de720e232a>



The files have been uploaded in GitHub.

Web URL:

```
<script>
  window.watsonAssistantChatOptions = {
    integrationID: "d927eecb-0383-4ca0-acdc-e6d829b857f4", // The ID of this integration.
    region: "jp-tok", // The region your integration is hosted in.
    serviceInstanceID: "8b7088cb-91c0-4a4e-a4e0-f1de720e232a", // The ID of your service
instance.
    onLoad: function(instance) { instance.render(); }
  };
  setTimeout(function() {
    const t=document.createElement('script');
    t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
    document.head.appendChild(t);
  });
</script>
```

5. Create Watson assistant service with 10 steps and use 3 conditions in it. Load that script in HTML page.

Getting Started Express VPN My Drive - Google Dri... WhatsApp js notes/functions.js - J... Striver's SDE Sheet - T... Student Dashboard Input and Output in C ... DBMS Resources - Go... OS Notes (Lead Codin...

Building chatbot for hospital

do you have any other branches?

There are 3 branches in the city. The branches are Adayar, Thambaram, Anna Nagar.

Type something...

Built with IBM Watson®

31°C Partly sunny 17:04 22-10-2022