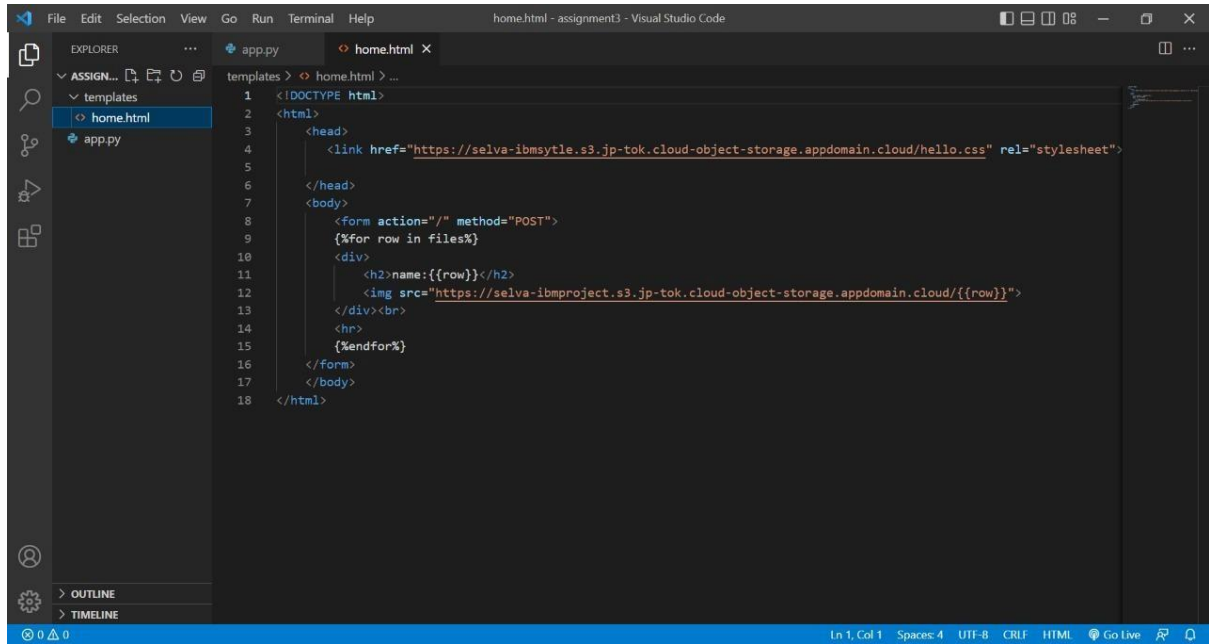


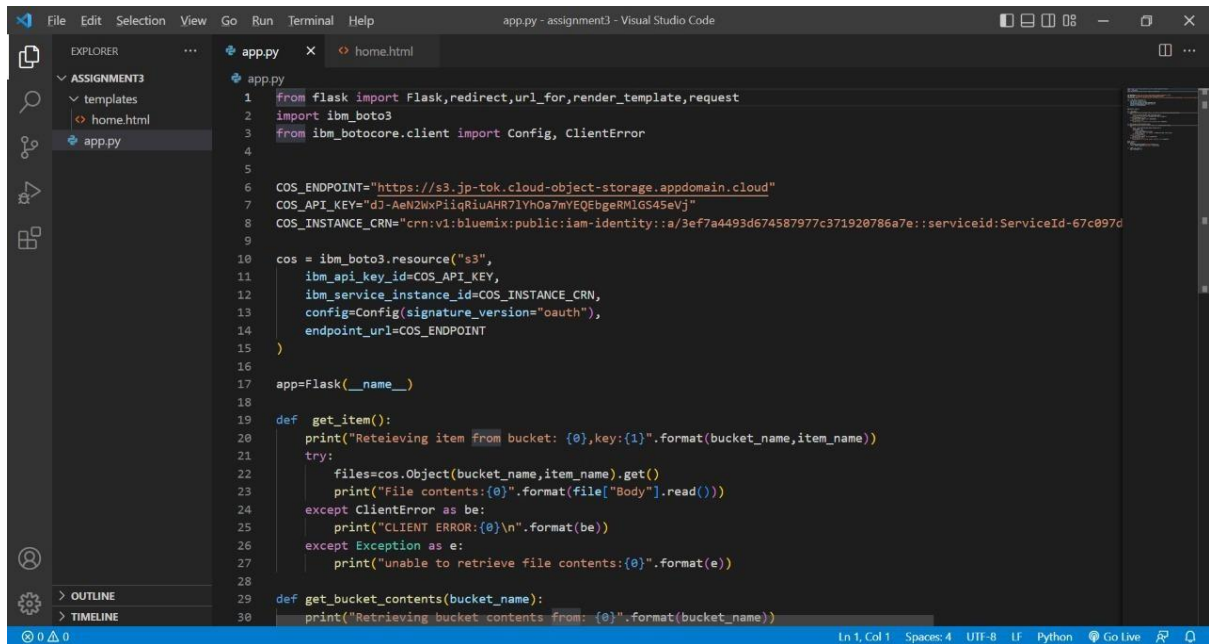
### Assignment – 3

### Cloud Object Storage

Assignment Date	21 OCTOBER 2022
Student Name	YUVAKRUBA S A
Student Roll Number	810019104091
Maximum Marks	2 Marks



```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <link href="https://selva-ibmsytle.s3.jp-tok.cloud-object-storage.appdomain.cloud/hello.css" rel="stylesheet">
5   </head>
6   <body>
7     <form action="/" method="POST">
8       {%for row in files%}
9       <div>
10        <h2>name:{{row}}</h2>
11        
12      </div><br>
13    {%endfor%}
14  </form>
15 </body>
16 </html>
```



```
1 from flask import Flask, redirect, url_for, render_template, request
2 import ibm_boto3
3 from ibm_botocore.client import Config, ClientError
4
5
6 COS_ENDPOINT="https://s3.jp-tok.cloud-object-storage.appdomain.cloud"
7 COS_API_KEY="dJ-AeN2WxPiIqRiuAHR7lYhOa7mYEQEbgeRMIGS4seVj"
8 COS_INSTANCE_CRN="crn:v1:bluemix:public:iam-identity::a/3ef7a4493d674587977c371920786a7e::serviceid:ServiceId-67c097d
9
10 cos = ibm_boto3.resource("s3",
11     ibm_api_key_id=COS_API_KEY,
12     ibm_service_instance_id=COS_INSTANCE_CRN,
13     config=Config(signature_version="oauth"),
14     endpoint_url=COS_ENDPOINT
15 )
16
17 app=Flask(__name__)
18
19 def get_item():
20     print("Retrieving item from bucket: {}".format(bucket_name, item_name))
21     try:
22         files=cos.Object(bucket_name, item_name).get()
23         print("File contents: {}".format(file["Body"].read()))
24     except ClientError as be:
25         print("CLIENT ERROR: {}".format(be))
26     except Exception as e:
27         print("unable to retrieve file contents: {}".format(e))
28
29 def get_bucket_contents(bucket_name):
30     print("Retrieving bucket contents from: {}".format(bucket_name))
```

```
File Edit Selection View Go Run Terminal Help app.py - assignment3 - Visual Studio Code

EXPLORER
ASSIGNMENTS3
  templates
    home.html
  app.py

app.py
27 print('unable to retrieve file contents:{0}'.format(e))
28
29 def get_bucket_contents(bucket_name):
30     print("Retrieving bucket contents from: {0}".format(bucket_name))
31     try:
32         files = cos.Bucket(bucket_name).objects.all()
33         files_names = []
34         for file in files:
35             files_names.append(file.key)
36             print("Item: {0} ({1} bytes)".format(file.key, file.size))
37         return files_names
38     except ClientError as be:
39         print("CLIENT ERROR: {0}\n".format(be))
40     except Exception as e:
41         print("Unable to retrieve bucket contents: {0}".format(e))
42
43 @app.route('/')
44 def index():
45     files=get_bucket_contents('selva-ibmproject')
46     return render_template("home.html",files=files)
47
48 if __name__ == '__main__':
49     app.run(debug=True)
50
```

