Assignment -3
IBM Object Storage and IBM Watson Assistant

Assignment Date	28 October 2022
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Maximum Marks	2 Marks

Question 1:

Create a Bucket in IBM object storage.

Solution:

ibmCloudTest.py import ibm_boto3 from ibm_botocore.client

import Config, ClientError from ibm_s3transfer.aspera.manager

import AsperaTransferManager from

ibm_s3transfer.aspera.manager import AsperaConfig from flask

import Flask, render_template, url_for, request, redirect

COS_ENDPOINT="https://s3.jp-tok.cloud-object-storage.appdomain.cloud"

COS_API_KEY_ID="wprEMAxyjHj5sPI959wL_3HJczOWRbYn52XUuLrDSJON"

COS_INSTANCE_CRN="crn:v1:bluemix:public:cloud-object-storage:global:a/602bcedcf9224f7b8c2e1aed60258292:b846251f-3216-44c8-b123-4e13e3571cda::"

cos = ibm_boto3.resource("s3",

ibm_api_key_id=COS_API_KEY_ID,

ibm_service_instance_id=COS_INSTANCE_CRN,

config=Config(signature_version="oauth"),

endpoint_url=COS_ENDPOINT

)

ms_transfer_config = AsperaConfig(multi_session=2, multi_session_threshold_mb=100)

transfer_manager = AsperaTransferManager(client=client, transfer_config=ms_transfer_config)

app=Flask(__name__)

```python
bucket_name = "flask-application" download_filename
= "E:\IMS\static\css\Styles.css" object_name =
"Styles.css"


with AsperaTransferManager(client) as transfer_manager:
    future = transfer_manager.download(bucket_name, object_name, download_filename)
    future.result()


def get_item(bucket_name, item_name):
    print("Retrieving item from bucket: {0}, key: {1}".format(bucket_name, item_name))
    try:
        file = cos.Object(bucket_name, item_name).get()
print("File Contents: {0}".format(file["Body"].read()))    except
ClientError as be:
        print("CLIENT ERROR: {0}\n".format(be))
except Exception as e:
        print("Unable to retrieve file contents: {0}".format(e))


def get_bucket_contents(bucket_name):
    print("Retrieving bucket contents from: {0}".format(bucket_name))
    try:
        files = cos.Bucket(bucket_name).objects.all()
files_names = []
        print(files)
for file in files:
            files_names.append(file.key)        print("Item: {0}
({1} bytes).".format(file.key, file.size))        return
files_names    except ClientError as be:
        print("CLIENT ERROR: {0}\n".format(be))
except Exception as e:

        print("Unable to retrieve bucket contents: {0}".format(e))
```
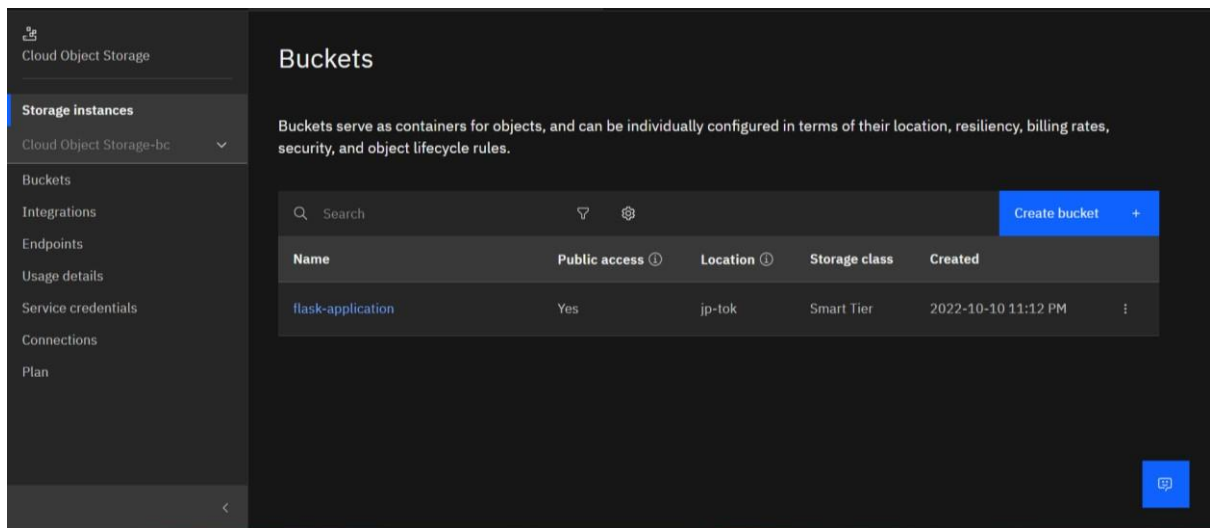
```python
@app.route('/') def
index():
    files = get_bucket_contents('flask-application')
return render_template('index.html', files = files)


if __name__=='__main__':
app.run(debug=True)
```

Output:

Question 2:

Upload 5 images to ibm object storage and make it public. write html code to displaying all the 5 images.

Solution: index.html

```
<h1>IBM Cloud Storage and IBM Watson Assistant</h1>

<br><hr>


{% block head %}

<!-- CSS -->

<link rel="stylesheet" href="{{ url_for('static',filename='css/Styles.css') }}" /> {%

endblock %}


<script>   window.watsonAssistantChatOptions = {     integrationID: "8abe6aef-f2bb-4376-be93-

7fda1857ec36", // The ID of this integration.     region: "jp-tok", // The region your integration is

hosted in.     serviceInstanceID: "440aaee1-fbb4-4c2b-8604-cb5d605fa157", // 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>


<!doctype html>
<html>
  <body>
   {% for row in files %}
     <div style="border: 1px solid #EFEFEF;margin:10px;">
       <h3>Filename : {{row}} </h3>
```

```
        <img src="https://flask-application.s3.jp-tok.cloud-object-storage.appdomain.cloud/{{row}}"
width="150px"></td>

      </div>

    {% endfor %}

  </body>

</html>
```
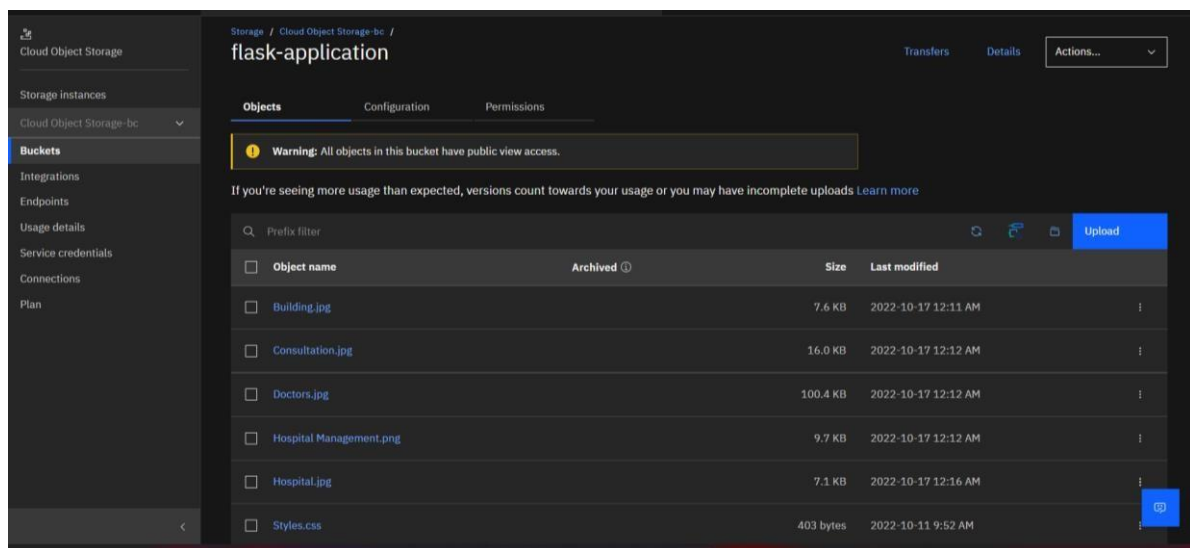
Output:

Question 3:

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

Solution: Styles.css body {

background-color: rgb(190, 229, 247);

text-align: center;   font-style: italic ;

}

.outercont

{

    height: 100vh;   width:

100vw;   display: flex;   flex-

direction: column;   justify-

content: space-around;   align-

items: center;

}

p {   font-size:

20px;

}

h1 {   text-align:

center;   font-style:
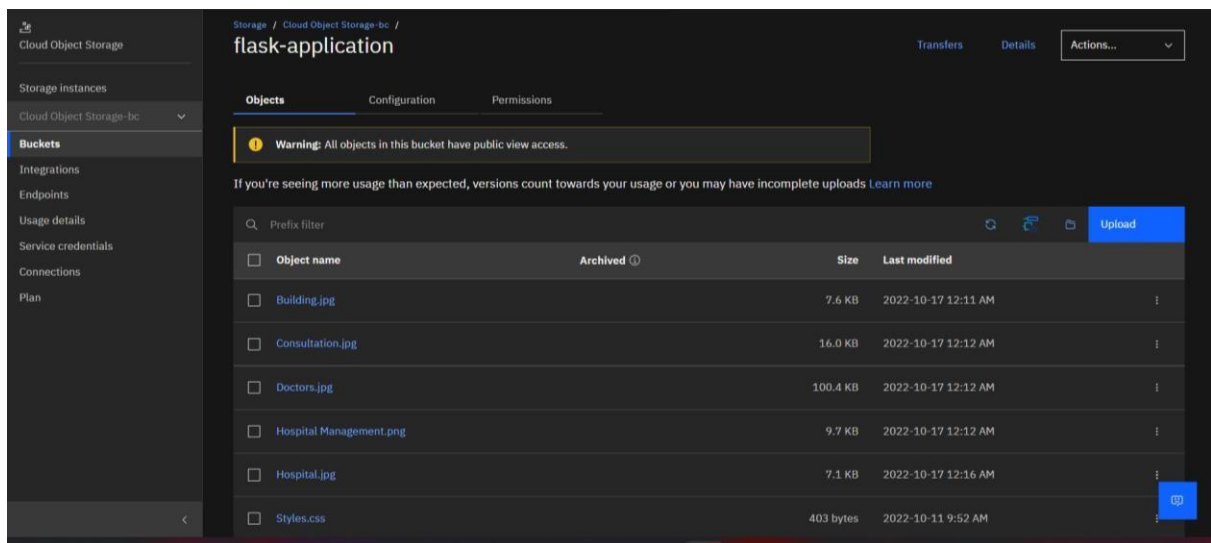
normal;

}

h2 {   text-align:

center;

}

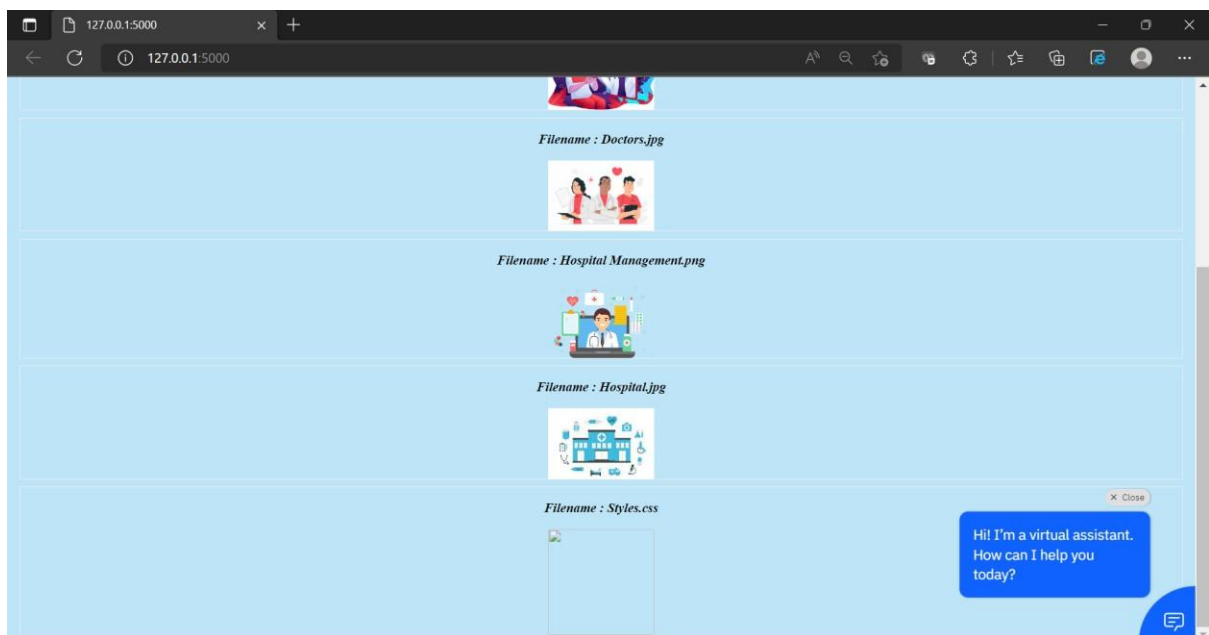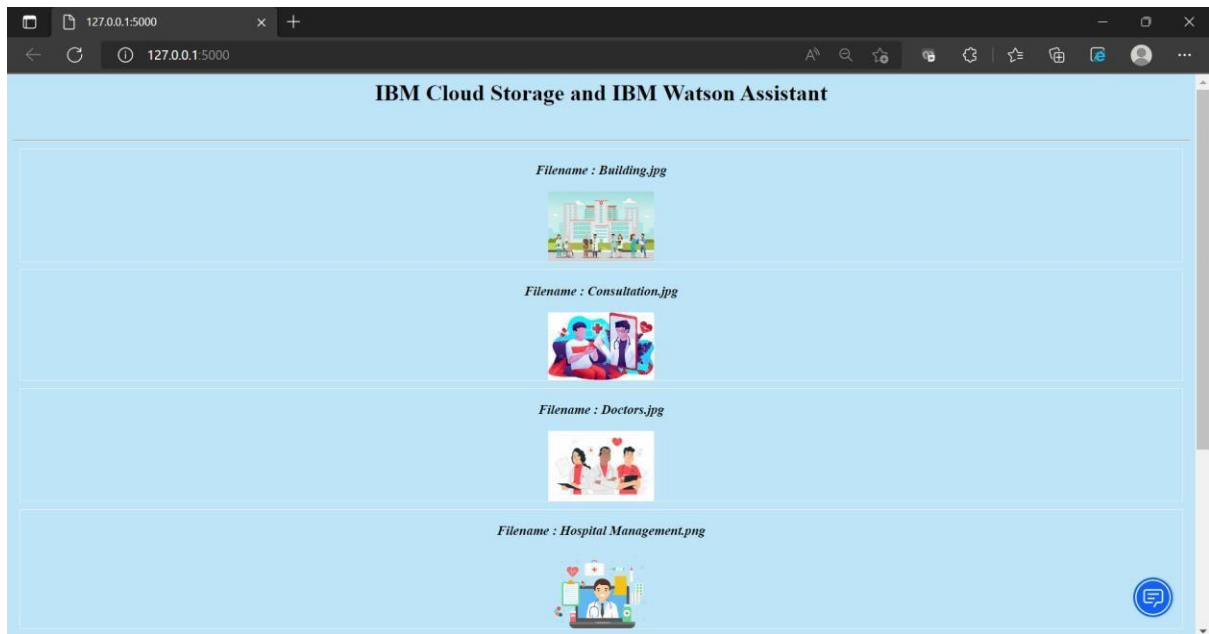.cont {   width:

700px;

}

.leftcont {   font-

size: 17px;

}

.rightcont {   font-

size: 17px;

}

```
.othercont {

   display: flex;

}
```

Output:
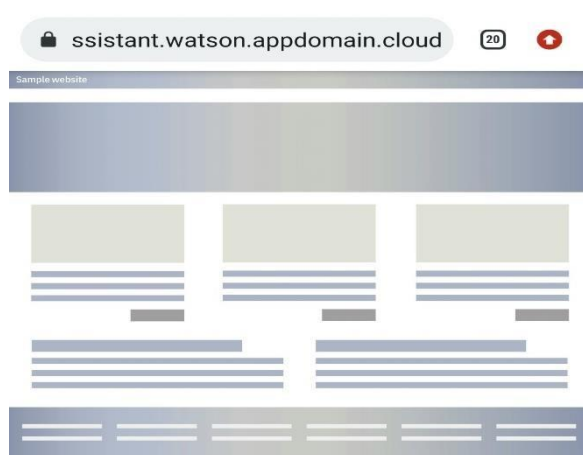

Web Page:

Question-4:

Design a chatbot using IBM Watson assistant for hospital. Ex: User comes with query to know the branches for that hospital in your city. Submit the web URL of that chat bot as a assignment.
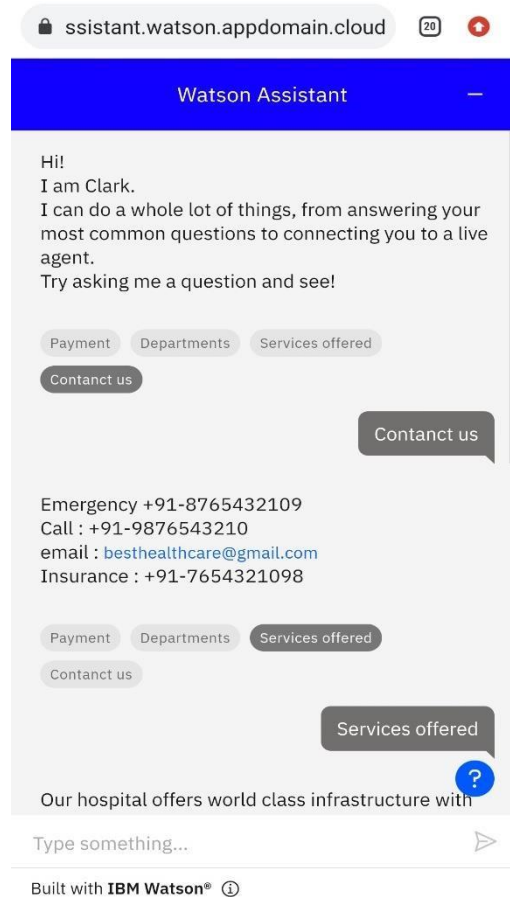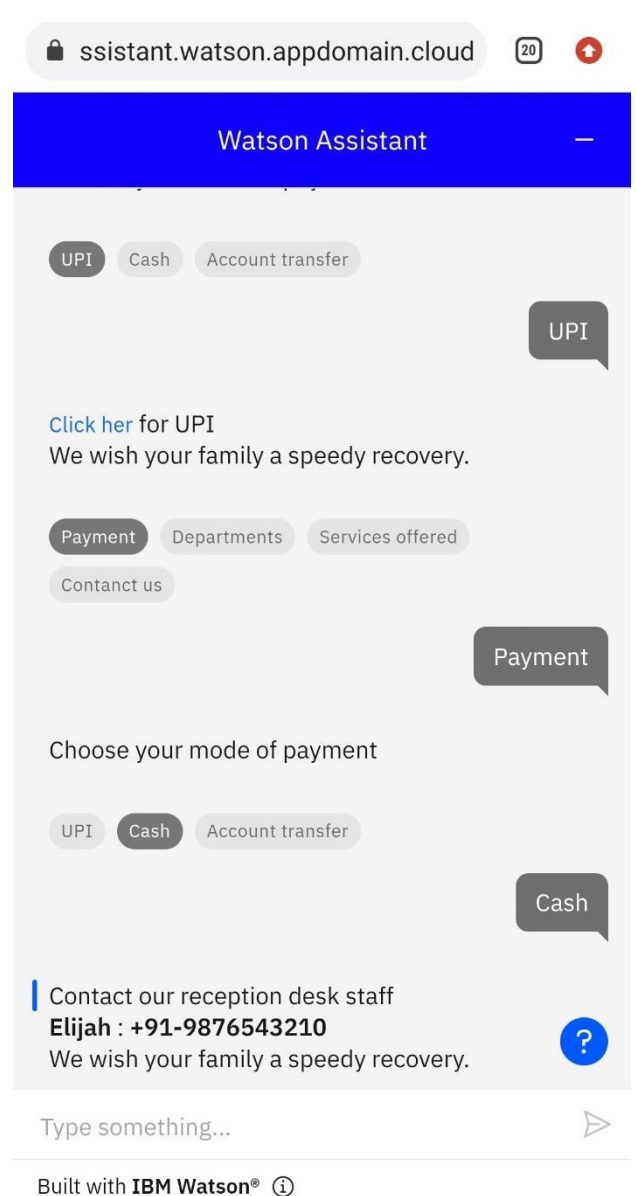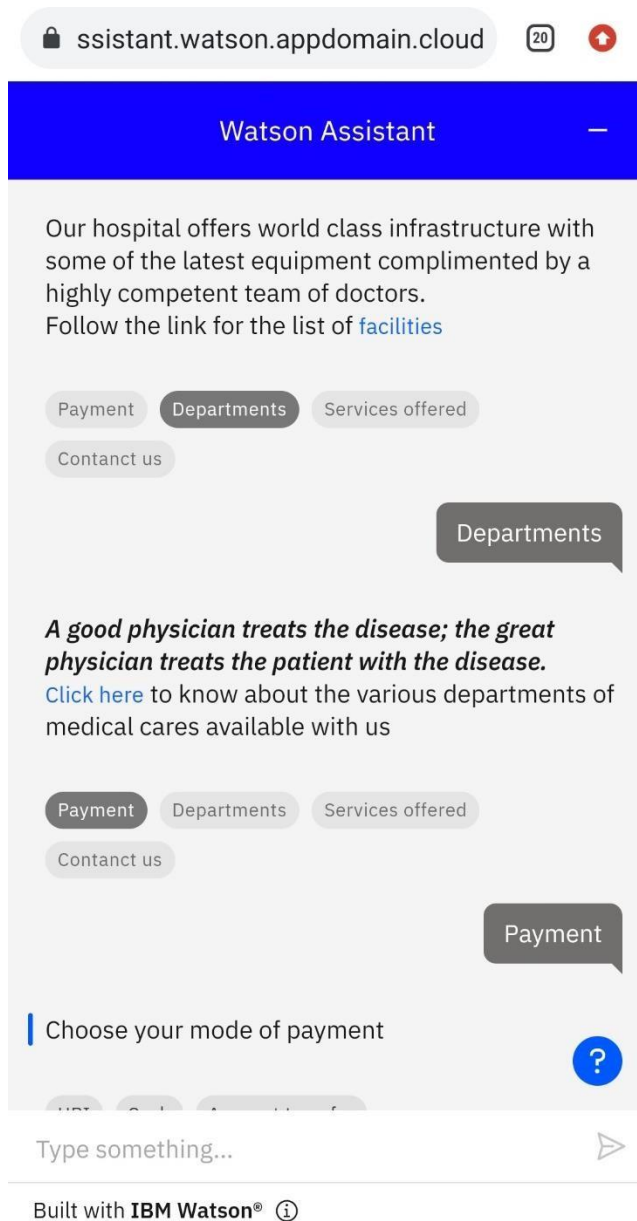
Solution:

https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageURL=https%3A%2F%2Fjp-tok.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-440aaee1-fbb4-4c2b-8604cb5d605fa157%3A%3Affa26b03-3295-42fd-a098-6723615c4e58&integrationID=a3e3b932-8ee443ee-9ccb-f3cfa9687188&region=jp-tok&serviceInstanceID=440aaee1-fbb4-4c2b-8604cb5d605fa157

Output:

Watson Assistant —

Our hospital offers world class infrastructure with some of the latest equipment complimented by a highly competent team of doctors.
Follow the link for the list of facilities

Payment   Departments   Services offered
Contanct us

Departments

A good physician treats the disease; the great physician treats the patient with the disease.
Click here to know about the various departments of medical cares available with us

Payment   Departments   Services offered
Contanct us

Payment

| Choose your mode of payment

Type something...

Built with **IBM Watson®** ⓘ

Watson Assistant —

UPI   Cash   Account transfer

UPI

Click her for UPI
We wish your family a speedy recovery.

Payment   Departments   Services offered
Contanct us

Payment

Choose your mode of payment

UPI   Cash   Account transfer

Cash

| Contact our reception desk staff
Elijah : **+91-9876543210**
We wish your family a speedy recovery.

Type something...

Built with **IBM Watson®** ⓘ

Question-5:

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

Solution:

```
<script>  window.watsonAssistantChatOptions = {     integrationID: "8abe6aef-f2bb-4376-be93-
7fda1857ec36", // The ID of this integration.     region: "jp-tok", // The region your integration is
hosted in.     serviceInstanceID: "440aaee1-fbb4-4c2b-8604-cb5d605fa157", // 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>
```

Steps:

Steps in payment   Steps in location

steps in What can you do

Conditions:
Conditions in payment

- UPI
- Account transfer
- Cash

Conditions in What can you do

- Departments
- Payment
- Services offered
- Contact us

Output:

Filename : Consultation.jpg

Filename : Doctors.jpg

Filename : Hospital Management.png

Filename : Hospital.jpg

Watson Assistant

Payment　Departments　Services offered　Contact us

Contact us

Emergency +91-8765432109
Call : +91-9876543210
email : besthealthcare@gmail.com
Insurance : +91-7654321098

Payment　Departments　Services offered　Contact us

Payment

| Choose your mode of payment

UPI　Cash　Account transfer

Type something...

Built with **IBM Watson**

Filename : Consultation.jpg

Filename : Doctors.jpg

Filename : Hospital Management.png

Filename : Hospital.jpg

Watson Assistant

UPI　Cash　Account transfer

UPI

Click her for UPI
We wish your family a speedy recovery.

Payment　Departments　Services offered　Contact us

Contact us

| Emergency +91-8765432109
Call : +91-9876543210
email : besthealthcare@gmail.com
Insurance : +91-7654321098

Payment　Departments　Services offered　Contact us

Type something...

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