Assignment -3
IBM Object Storage and IBM Watson Assistant

Assignment Date	28 October 2022
Student Name	Manoj.m.p
Student Roll Number	961819104054
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)

```python
app=Flask(__name__)

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))
```
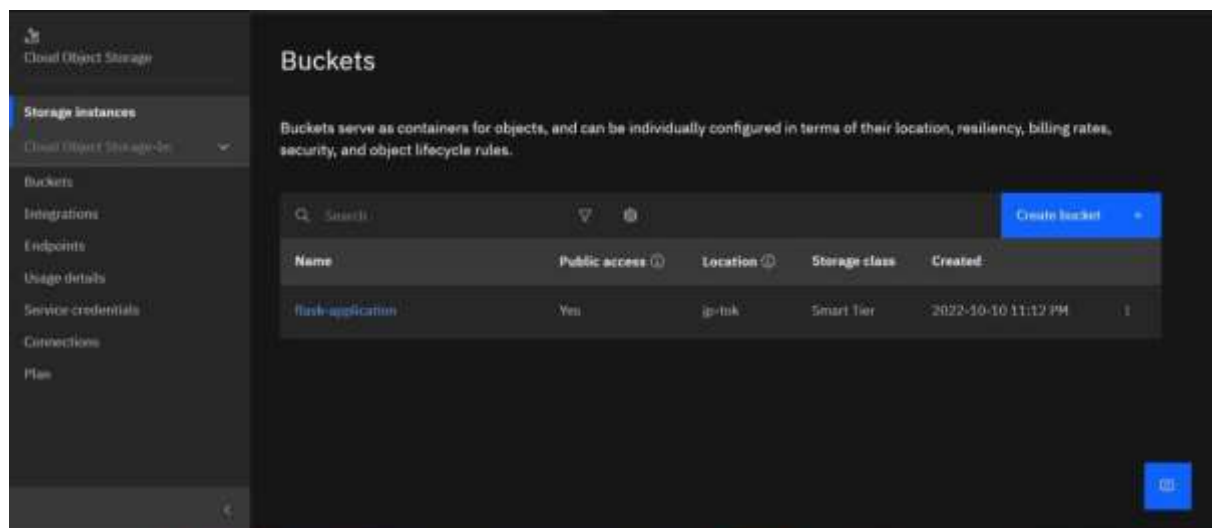
```python
@app.route('/') def

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>

<hr>

{% block head %}

<!-- CSS -->

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

endblock %}

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

be937fda1857ec36", // 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>
```
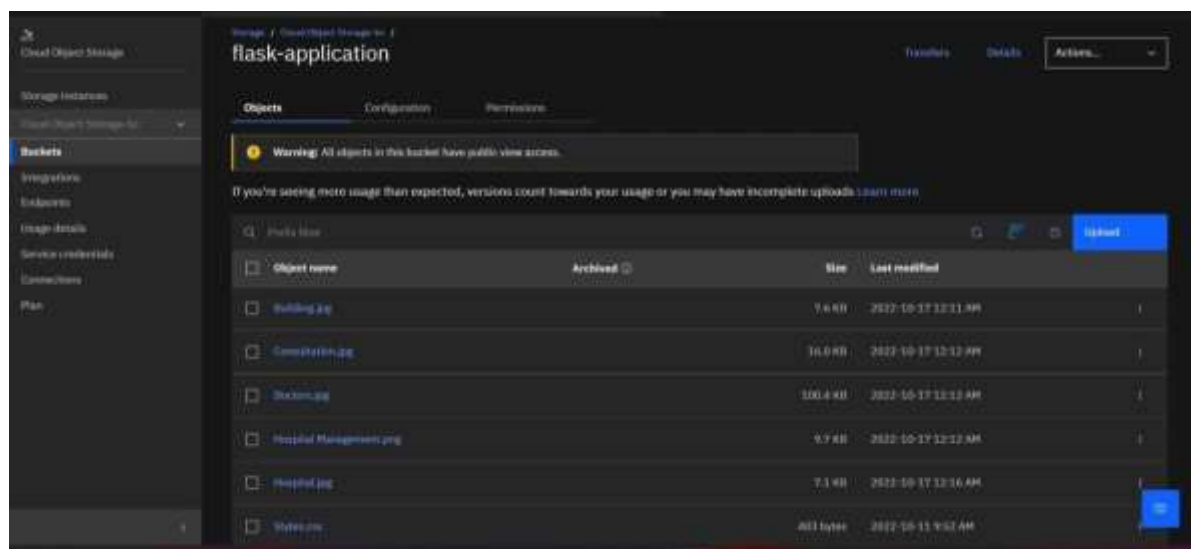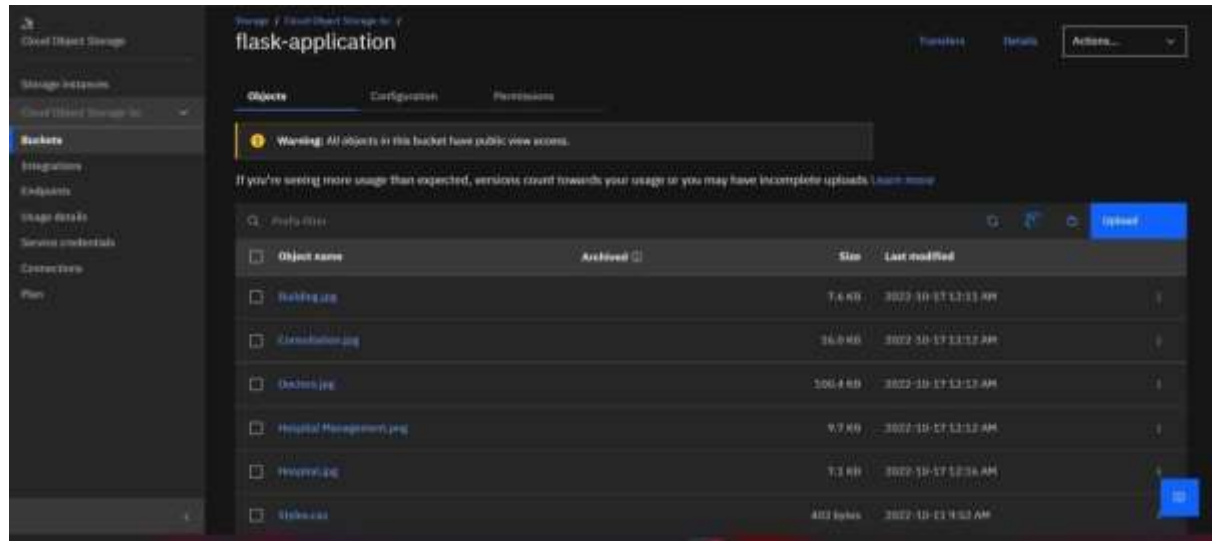
Output:

Question 3:

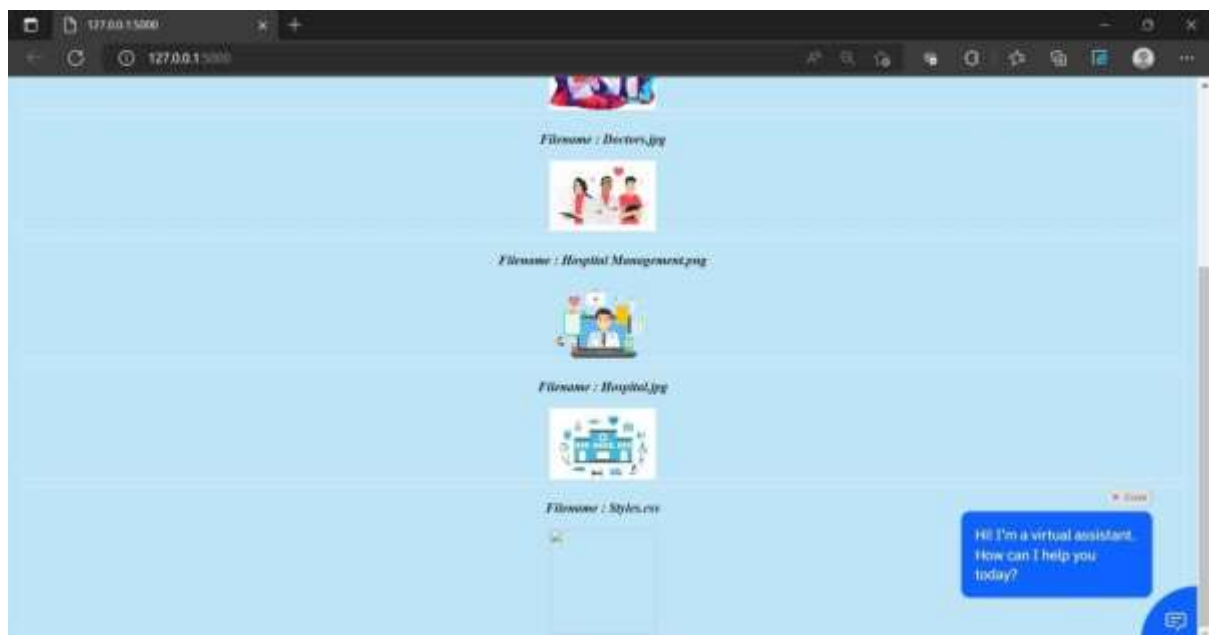Upload a css page to the object storage and use the same page in your HTML code.

Solution: Styles.css body {   background-
color: rgb(190, 229, 247);   text-align: center;
font-style: italic ;
}
.outercont
{
    height: 100vh;   width:
100vw;   display: flex;
flexdirection: column;
justifycontent: space-around;
alignitems: center;
}
p {   font-size:
20px;
}
h1 {   text-align:
center;   font-style:
normal;
}
h2 {   text-align:
center;
}
.cont {   width:
700px;
}
.leftcont {   fontsize:
17px;
}
.rightcont {   fontsize:
17px;
}

```
.othercont {

display: flex;

}
```

Output:
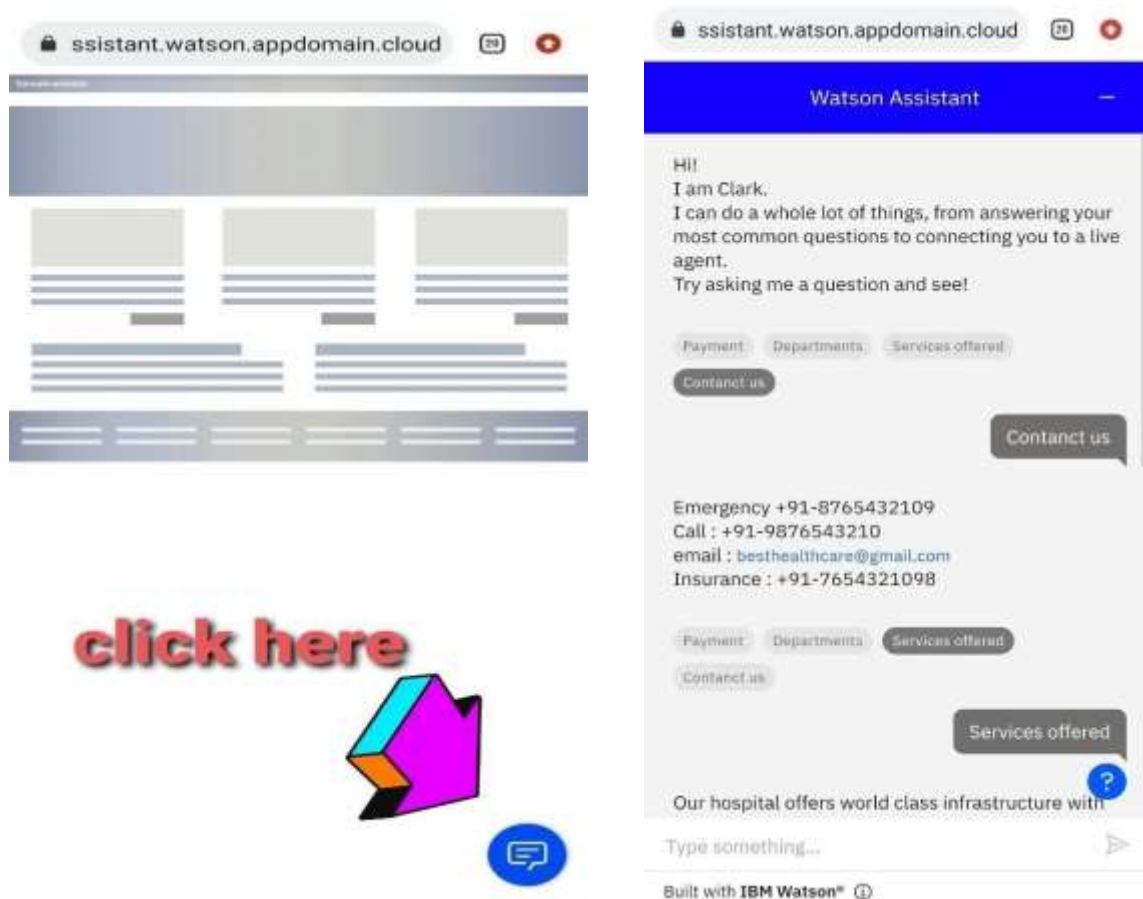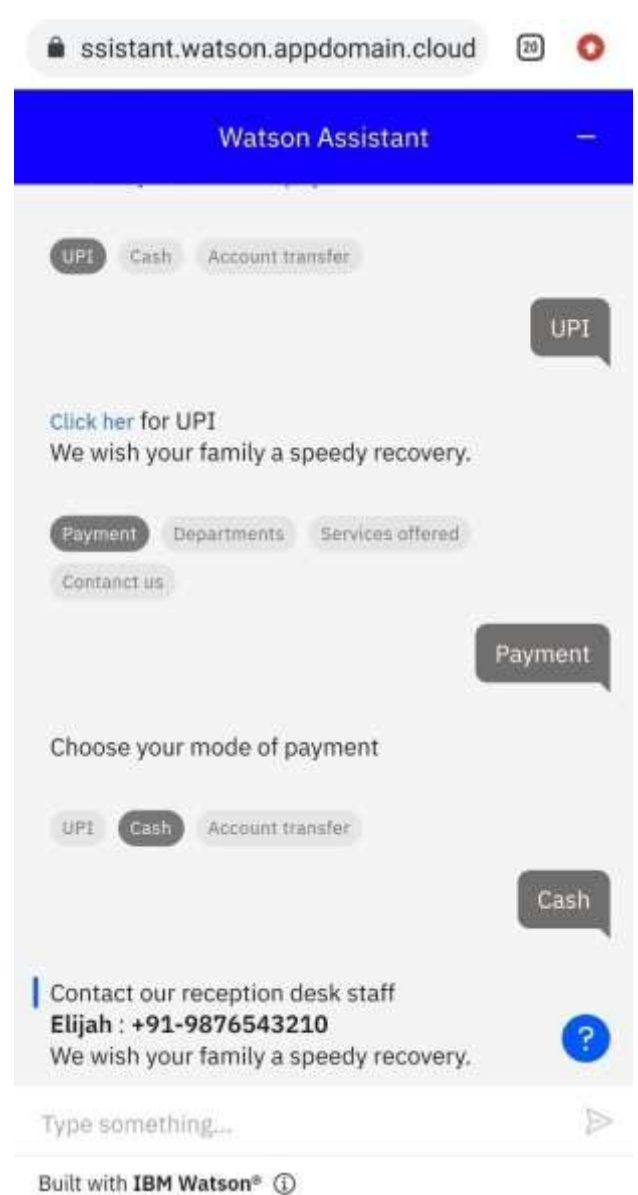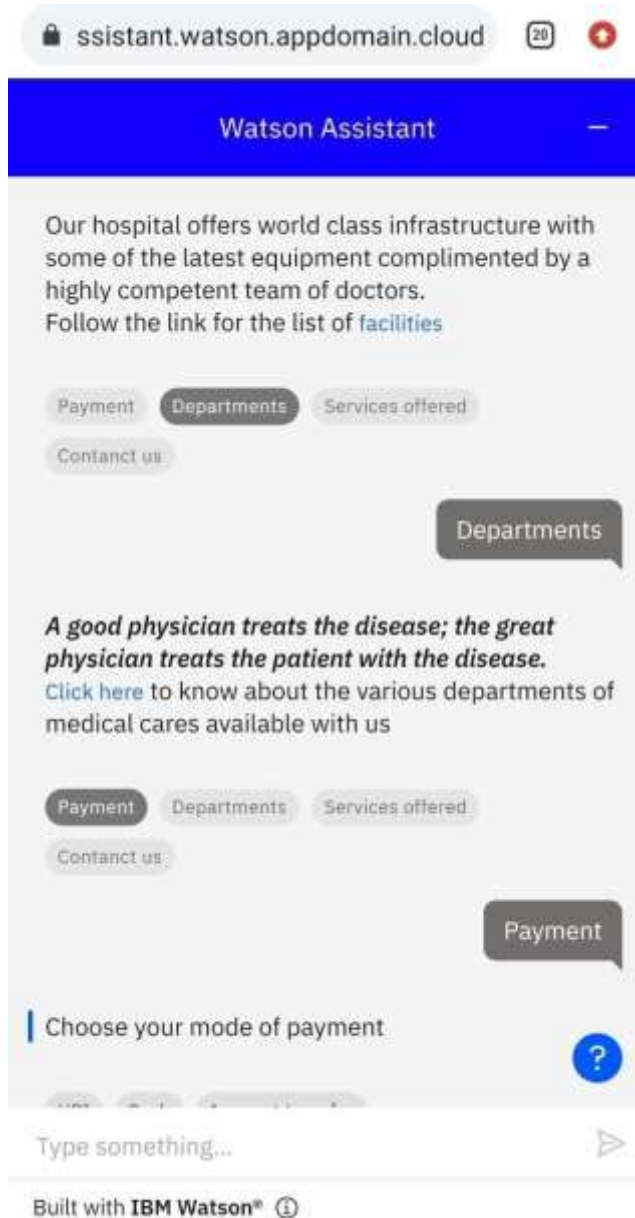

Web Page:

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-fbb4-4c2b8604cb5d605fa157%3A%3Affa26b03-3295-42fd-a098-6723615c4e58&integrationID=a3e3b9328ee443ee-9ccb-f3cfa9687188&region=jp-tok&serviceInstanceID=440aaee1-fbb4-4c2b8604cb5d605fa157

Output:

Left screen:

ssistant.watson.appdomain.cloud

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®** ⓘ

Right screen:

ssistant.watson.appdomain.cloud

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-
be937fda1857ec36", // 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

Make a payment

Customer starts with:
Complete payment

Conversation steps

1   Choose your mode of payment
    UPI   Account tran...   + 1
    ↓ Continue to next step

1 == UPI

2 [Click her](https://pay.google.com/intl/en_in/about/)
   for Step 1   We wish your family a speedy recovery.

   Go to action: **What can you do?**

1 == Account transfer

3 RTGS Account Number: 1234567890 IF5C code of
   the Branch :SBIN0981

   Go to action: **What can you do?**

1 == Cash

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

   New step   +

IBM **Watson Assistant** Lite   Upgrade   Clark ⌄

Location

Customer starts with:
Can you please give me a list of the types of things you can he...

Conversation steps

1 We have our branch all around the world [Click here]
   (https://www.google.com/maps/search/best+health+...

   Go to action: **What can you do?**

   New step   +

steps in What can you do

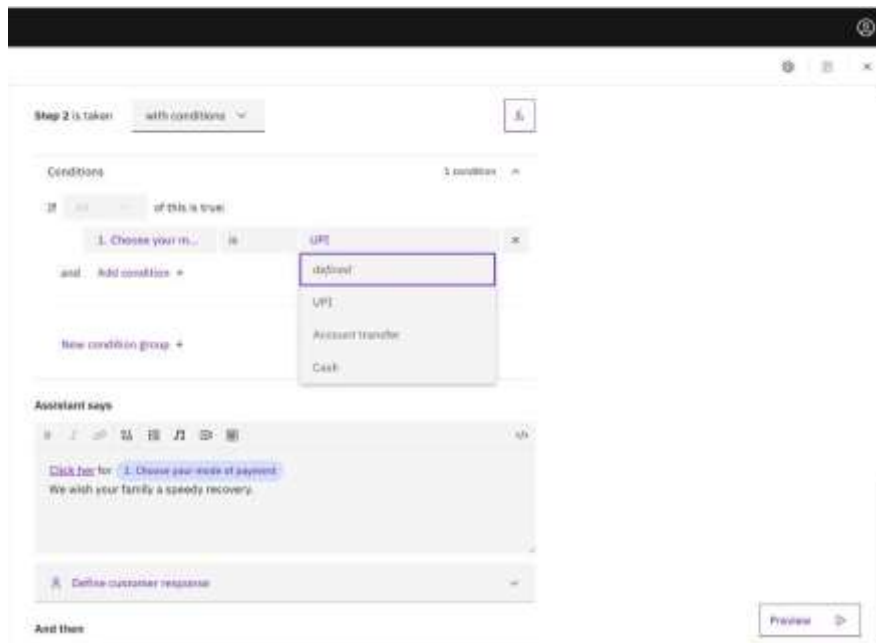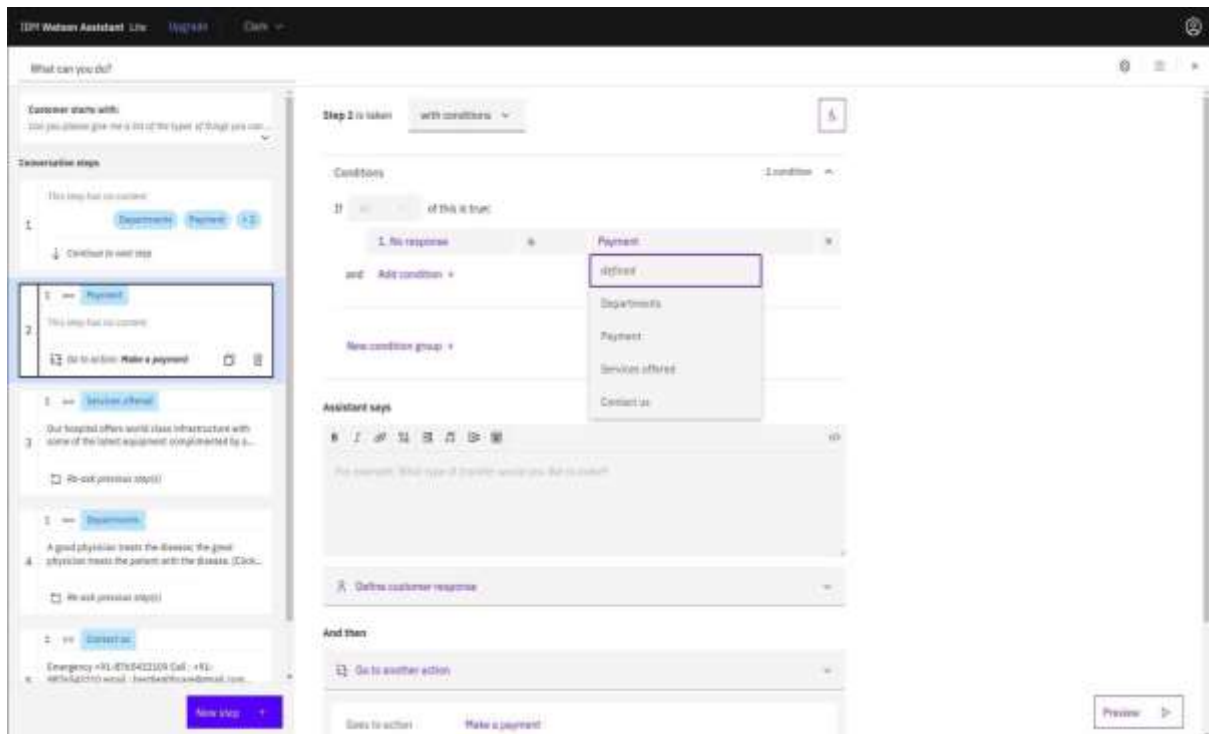**Conditions:**

Conditions in payment
- UPI

- Account transfer
- Cash

Conditions in What can you do

- Departments
- Payment
- Services offered
- Contact us

Output: