```
1. Create a bucket in IBM object storage.
from flask import Flask, redirect, url for, render template, request
import ibm boto3
from ibm botocore.client import Config, ClientError
COS ENDPOINT="https://s3.jp-tok.cloud-object-storage.appdomain.cloud"
COS API KEY ID=" "
COS INSTANCE CRN=""
# Create resource https://s3.ap.cloud-object-storage.appdomain.cloud
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
)
app=Flask( name )
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 = []
    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))
def delete item(bucket name, object name):
```

try:

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cos.delete object(Bucket=bucket name, Key=object name)
     print("Item: {0} deleted!\n".format(object name))
  except ClientError as be:
    print("CLIENT ERROR: {0}\n".format(be))
  except Exception as e:
    print("Unable to delete object: {0}".format(e))
def multi part upload(bucket name, item name, file path):
    print("Starting file transfer for {0} to bucket: {1}\n".format(item name, bucket name))
    # set 5 MB chunks
    part size = 1024 * 1024 * 5
    # set threadhold to 15 MB
     file threshold = 1024 * 1024 * 15
    # set the transfer threshold and chunk size
     transfer config = ibm boto3.s3.transfer.TransferConfig(
       multipart threshold=file threshold,
       multipart chunksize=part size
    # the upload fileobj method will automatically execute a multi-part upload
    # in 5 MB chunks for all files over 15 MB
     with open(file path, "rb") as file data:
       cos.Object(bucket name, item name).upload fileobj(
         Fileobj=file data,
         Config=transfer config
       )
    print("Transfer for {0} Complete!\n".format(item name))
  except ClientError as be:
    print("CLIENT ERROR: {0}\n".format(be))
  except Exception as e:
    print("Unable to complete multi-part upload: {0}".format(e))
@app.route('/')
def index():
  files = get bucket contents('flaskapp123')
  return render template('index.html', files = files)
@app.route('/deletefile', methods = ['GET', 'POST'])
def deletefile():
 if request.method == 'POST':
    bucket=request.form['bucket']
    name file=request.form['filename']
    delete item(bucket,name file)
    return 'file deleted successfully'
 if request.method == 'GET':
    return render template('delete.html')
@app.route('/uploader', methods = ['GET', 'POST'])
def upload():
```

```
if request.method == 'POST':
    bucket=request.form['bucket']
    name file=request.form['filename']
    f = request.files['file']
    multi part upload(bucket,name file,f.filename)
    return 'file uploaded successfully <a href="/">GO to Home</a>'
 if request.method == 'GET':
    return render template('upload.html')
if name ==' main ':
  app.run(host='0.0.0.0',port=8080,debug=True)
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2.Upload an 5 images to IBM object storage and make it public.write HTML code to displaying all the 5 images.
<!DOCTYPE html>
<html>
<body>
<link rel="stylesheet" href="jeevii.css">
<h2>images</h2>
<img src="images.jpg" alt="Mountain" style="width:300px"><br>
<img src="images.jpg" alt="Mountain" style="width:300px"><br>
<br>
<img src="images.jpg" alt="Mountain" style="width:300px"><br>
<br>
<img src="images.jpg" alt="Mountain" style="width:300px"><br>
<img src="images.jpg" alt="Mountain" style="width:300px"><br>
<br>
</body>
</html>
3. Upload a CSS page to the object storage and use the same page in your HTML code.
body {
background:blue;
li {
```

```
font-style: italic;
  color: red;
}
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.
# Import "chatbot" from
# chatterbot package.
from chatterbot import ChatBot
# Inorder to train our bot, we have
# to import a trainer package
# "ChatterBotCorpusTrainer"
from chatterbot.trainers import ChatterBotCorpusTrainer
# Give a name to the chatbot "corona bot"
# and assign a trainer component.
chatbot=ChatBot('corona bot')
# Create a new trainer for the chatbot
trainer = ChatterBotCorpusTrainer(chatbot)
# Now let us train our bot with multiple corpus
trainer.train("chatterbot.corpus.english.greetings",
        "chatterbot.corpus.english.conversations")
response = chatbot.get response('What is your Number')
print(response)
response = chatbot.get response('Who are you?')
print(response)
5. Create watson assistant service with 10 steps and use 3 conditions in it.load that script in HTML page.
<html>
  <body>
 <a href="/">HOME</a>
<a href="/uploader">Upload </a>
<a href="/deletefile">Delete </a>
<br>><hr>
<h1>IBM Upload File</h1>
    <form action = "/uploader" method = "POST"
      enctype = "multipart/form-data">
           <input type = "text" placeholder="Enter bucket name" name = "bucket" />
           <br>
           <br>
           <input type = "text" placeholder="Enter file name" name = "filename" />
           <br>
           <br>
      <input type = "file" name = "file" />
           <br>
           <br>
```

```
<input type = "submit"/>
</form>
</body>
</html>
```