**CS361 - Assignment 2**

**Microservices warm-up**

**The following document is a helper to get you started with assignment-2**

Step 1 - Create txt files - image-service.txt and prng-service.txt

Step 2 - Create folder cs361 and save images with names as 1.jpg, 2.jpg, 3.jpg etc….

Step 3 - Create Prng,py

**Prng.py**

While true:

Sleep for 1 second.

Open file prng-service.txt

Read file

If line in file is “run”:

Generate random number

Erase “run” from prng-service.txt

Write random number in to prng-service.txt

Close file

Step 4 - Create imgsrv.py

**Imgsrv.py**

While true:

Sleep for 1 second

Open image-service.txt

if(read image-service.txt == type(number))

copy number to local variable

Use Mod operator to mod number with number of images

Write path (ex : /images/{number}.jpg) to image-service.txt

Close file image-service.txt

Step 5 - Create Ui.py

**Ui.py**

While true:

//1 to generate new image or 2 to exit

Request for input

If input == 1:

Open prng-service.txt

Write “run” in prng-service.txt

Sleep for 5 seconds

Read pseudo random number from prng-service.txt

Open image-service.txt

Erase data in image-service.txt

Write pseudo random number

Sleep for 5 seconds

Read and output image-service.txt

Close image-service.txt

Close prng-service.txt

else if input ==2

return

else   
 print (“unknown option”)

Step 6 - Run all three programs in separate terminal instances.

**Note**

* If you have used a different method to achieve the same result it's also acceptable - this is just an example.
* You can use any programming language.