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ASSIGNMENT NAME : AMAZON WEB SERVICES (S3)

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from subprocess import call as s\_call

#subprocess.call()--> takes input as subprocess.call(["ls","-l"]) command as a list

import sys #for sys.exit() Program termination

ch=int() #ch will be of type integer

while(ch!=8):

print "\nMenu"

print "1.Create Bucket"

print "2.Delete Bucket"

print "3.Download File"

print "4.Upload File "

print "5.Delete File"

print "6.View Buckets"

print "7.View Bucket contents"

print "8.EXIT"

while(1):

#try-except block for invalid input by user

try:

ch=int(raw\_input("Enter your choice: \n"))

break #come out of loop after valid input

except ValueError: #ValueError is a type of exception

pass #don't do anything

if ch==1:

bucket=raw\_input("Enter bucket name:\n")

region=raw\_input("Enter region name:\n")

cmd="aws s3api create-bucket --bucket %s --region %s"%(bucket,region) # replace '%s' with proper values

print 'command : ', cmd,'\n', 'using split() : ',cmd.split() #print the whole command

s\_call(cmd.split()) # split and give it as a list to subprocess.call() i.e s\_call()

elif ch==2:

bucket=raw\_input("Enter bucket name:\n")

region=raw\_input("Enter region name:\n")

cmd="aws s3api delete-bucket --bucket %s --region %s"%(bucket,region)

print 'command : ', cmd

s\_call(cmd.split())

elif ch==3:

src\_path=raw\_input("Enter File path: 'From s3 to local : eg. /<bucket\_name>/<folder\_name>/...'\n")

dest\_path=raw\_input("Enter Destination path:\n")

cmd="aws s3 cp s3:/%s %s"%(src\_path,dest\_path)

print 'command : ', cmd

s\_call(cmd.split())

elif ch==4:

src\_path=raw\_input("Enter File path: 'From local to s3 storage'\n")

dest\_path=raw\_input("Enter Destination path: 'eg. /<bucket\_name>/<folder\_name>/...'\n")

cmd="aws s3 cp %s s3:/%s"%(src\_path,dest\_path)

print 'command : ', cmd

s\_call(cmd.split())

elif ch==5:

file\_path=raw\_input("Enter File path to be deleted: 'eg. /<bucket\_name>/<folder\_name>/<file\_name>...'\n")

cmd="aws s3 rm s3:/%s"%(file\_path)

print 'command : ', cmd

s\_call(cmd.split())

elif ch==6:

cmd="aws s3 ls"

print 'command : ', cmd

s\_call(cmd.split())

elif ch==7:

bucket=raw\_input("Enter the bucket name:\n")

cmd="aws s3 ls %s"%bucket

print 'command : ', cmd

s\_call(cmd.split())

elif ch==8:

print "Exited!"

sys.exit()

else:

print "Enter correct choice!"