**24/03/2019 Lecture22**

**Subprocess Revision**

**Popen (for Windows OS try online python editor)**

import subprocess

def foo():

print("Executed.....")

subprocess.Popen(['echo','"to stdout"'],preexec\_fn=foo)

**#All functions of subprocess**

import subprocess

def foo():

print("Executed.....")

print '\nread:'

proc = subprocess.Popen(['echo','"to stdout"'],stdout=subprocess.PIPE)

stdout\_value = proc.communicate()[0]

print '\tstdout:',repr(stdout\_value)

#setup a pipe to allow the calling program to write data to it, set stdin to PIPE

print '\nwtire'

proc=subprocess.Popen(['cat','-'],stdin=subprocess.PIPE)

proc.communicate('\t Jay Jay Ram Krishna Hari to stdin\n')

proc=subprocess.Popen(['cat','-'],stdin=subprocess.PIPE,stdout=subprocess.PIPE)

stdout.value=proc.comminicate(' through stdin to stdout')[0]

print('\tpass through:',repr(stdout\_value))

**#WAP to accept input file name, output file name and error file name from user using subprocess.popen() ensure that word count, character count and line count of input file are written to output file.**

import subprocess

def WordCharLineCount(inputFile,outputFile,errorFile)

inputFilefd=open(inputFile,"r")

outputFilefd=open(outputFile,"w")

errorFilefd=open(errorFile,"w")

proc=subprocess.Popen(['cat','-'],stdin=inputFilefd,stdout=outputFilefd,stderr=errorFilefd)

def main():

inputFile=print("enter input file name")

outputFile=print("Enter output file name")

errorFile=input("Etner file name in which error to be printed")

WordCharLineCount(inputFile,outputFile,errorFile)

if \_\_name\_\_=='\_\_main\_\_'

main()

**#WAP which runs periodically and display status of currently running processes.**

import subprocess

def showProcessRunning(timeout,count=10):

while count!=10:

output=subprocess.check\_output(["tasklist","-A",shell=True])

print output

count+=1

time.sleep(timeout)

def main():

timeout=input("Enter timeout time")

count=input("enter count")

showProcessRunning(timeout,count)

if \_\_name\_\_=='\_\_main\_\_'

main()

**Assignments**

**#WAP to accept command to be executed as command line argument, execute the command provided and print the output of the same.**

**#WAP to explore ps util module(import ps)**