E-Mail



- To send an E-Mail
 - Client should connect to an Message Transport Agent (MTA)
 - MTAs communicate by using Message Transport System (MTS)
 - MTAs implemented in SMTP:
 - Open-source MTAs
 - SendMail
 - Postfix
 - Exim
 - Qmail
 - Commercial MTAs
 - Microsoft Exchange
 - Lotus Notes Domino Mail Server





- Steps
 - Connect to server
 - Log in (if applicable)
 - Make service request(s)
 - Quit
- Module to be imported: smtplib
 - from smtplib import SMTP
- Connecting to server
 - n = SMTP('smtp.yourdomain.com')
- Quitting connection
 - n.quit()

smtplib.SMTP class Methods



Method	Description
login(user, passwd)	Log into SMTP server with username and passwd
sendmail(from, to, msg,[, mopts, ropts]	Sends msg from from to to (list/tuple) with optional ESMTP mail (mopts) and recipient (ropts) options
ehlo() or helo()	Initiates a session with an SMTP or ESMTP server using EHLO or HELO respectively. It is optional because sendmail() will automatically call these as necessary
starttls(keyfile=None, certfile=None)	Directs server to begin TLS security mode. If either keyfile or certfile are given they are used in the creation of the secure socket

smtplib.SMTP class Methods 2



Method	Description
set_debuglevel(level)	Sets the debug level for server communication
quit()	Close the connection and quits

E-Mail



- To receive an E-Mail
 - POP3 (Post Office Protocol version 3)
 - IMAP4(Internet Message Access Protocol version 4)
 - Provides facility to access mail from more than one device





- Steps
 - Connect to server
 - Log in (if applicable)
 - Make service request(s)
 - Quit
- Module to be imported: poplib
 - from poplib import POP3
- Connecting to server
 - p = POP3('pop.yourdomain.com')
 - p.user('username')
 - P.pass_('password')
- Quitting connection
 - p.quit()





Method	Description
user(login)	Sends the login name to the server, awaits reply indicating the server is waiting for user's password
pass_(passwd)	Sends the passwd; an exception occurs on login / password failure
stat()	Returns mailbox status, a 2-tuple (msg_cnt, mbox_siz); the total message count and the total message size in octets)
list([msgnum])	Superset of stat(); returns entire message list from server as a 3-tuple (rsp, msg_list, rsp_siz); if msgnum is given returns the data for that message only





Method	Description
retr(msgnum)	Retrieves message msgnum from server and sets its "seen" flag; returns a 3-tuple (rsp, msglines, msg_siz)
dele(msgnum)	Tag message number for deletion; deletes upon quit
quit()	Logs out, commits changes, unlocks mailbox, terminates connection and then quits

Internet Mail Access Protocol (IMAP)



- Steps
 - Connect to server
 - Log in (if applicable)
 - Make service request(s)
 - Quit
- Module to be imported: imaplib
 - from imaplib import IMAP4_SSL
- Connecting to server
 - server = IMAP4_SSL('imap.yourdomain.com')
 - server.login('username', 'password')
- Quitting connection
 - server.logout()

imaplib.IMAP4 class Methods THINK MERIT | THINK TRANSPARENCY | THINK SASTRA SASIKA ENGINEERING- MANAGEMENT - LAW: SCIENCES - HUMANTIES - EDUCATION DEEMED TO BE UNIVERSITY (U/S 3 OF THE U/G C ACT, 1956)

Method	Description
login(user, passwd)	Login user by using given password
fetch(message_set, message_parts)	Retrieve e-mail messages (or requested parts via message_parts) stated by message_set
noop()	Ping server but take no action
search(charset, *criteria)	Searches mailbox for messages matching at least one piece of criteria; if charset is False, it defaults to US-ASCII
select(mailbox='INBOX', read-only = False)	Selects a mailbox (default is INBOX); user not allowed to modify contents if readonly is set

Method	Description
close()	Closes the current mailbox. If access is not set to read- only any deleted messages will be discarded
logout()	Logs out from server