

File Handling

Lab 28-04-2021 (Fri)

Harsh Chaturvedi

Section: ML

Roll No: 29

University Roll No: 2014669

Program 1

Write a program to read through a file and print the contents of the file (line by line) all in upper case. Executing the program will look as follows:

```
Enter a file name: mbox-short.txt
FROM STEPHEN.MARQUARD@UCT.AC.SA SAT JAN 5 09:14:16 2008
RETURN-PATH: <POSTMASTER@COLLAB.SAKAIPROJECT.ORG>
RECEIVED: FROM MURDER (MAIL.UMICH.EDU [141.211.14.90])
BY FRANKENSTEIN.MAIL.UMICH.EDU (CYRUS V2.3.8) WITH LMTPA;
SAT, 05 JAN 2008 09:14:16 -0500

You can use the file: [mbox-short.txt][https://www.py4e.com/code3/mbox-short.txt]
```

```
In [16]: with open(input("Enter a file name: ")) as stream:
        print(stream.read().upper())

NT
X-DSPAM-PROCESSED: FRI JAN 4 04:07:34 2008
X-DSPAM-CONFIDENCE: 0.7554
X-DSPAM-PROBABILITY: 0.0000

DETAILS: HTTP://SOURCE.SAKAIPROJECT.ORG/VIEWSVN/?VIEW=REV&REV=39750

AUTHOR: STEPHEN.MARQUARD@UCT.AC.SA
DATE: 2008-01-04 04:05:43 -0500 (FRI, 04 JAN 2008)
NEW REVISION: 39750

MODIFIED:
EVENT/BRANCHES/SAK-6216/EVENT-UTIL/UTIL/SRC/JAVA/ORG/SAKAIPROJECT/UTIL/EMAILNOTIFICATION.JAVA
LOG:
SAK-6216 MERGE EVENT CHANGE FROM SAK-11169 (R39033) TO SYNCHRONIZE BRANCH WITH 2-5-X (FOR CONVENIENCE FOR UCT LOCAL BUILD)

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THIS AUTOMATIC NOTIFICATION MESSAGE WAS SENT BY SAKAI COLLAB (HTTPS://COLLAB.SAKAIPROJECT.ORG/PORTAL) FROM THE SOURCE SITE.
YOU CAN MODIFY HOW YOU RECEIVE NOTIFICATIONS AT MY WORKSPACE > PREFERENCES.

FROM LOUIS@MEDIA.BERKELEY.EDU THU JAN 3 19:51:21 2008
RETURN-PATH: <POSTMASTER@COLLAB.SAKAIPROJECT.ORG>
RECEIVED: FROM MURDER (MAIL.UMICH.EDU [141.211.14.91])
BY FRANKENSTEIN.MAIL.UMICH.EDU (CYRUS V2.3.8) WITH LMTPA;
THU, 03 JAN 2008 19:51:21 -0500
X-SIEVE: CMU SIEVE 2.3
RECEIVED: FROM MURDER ([UNIX SOCKET])
BY MAIL.UMICH.EDU (CYRUS V2.2.12) WITH LMTPA;
THU, 03 JAN 2008 19:51:21 -0500
RECEIVED: FROM EYEWITNESS.MR.ITD.UMICH.EDU (EYEWITNESS.MR.ITD.UMICH.EDU [141.211.93.142])
BY JACKKNIFE.MAIL.UMICH.EDU ( ) WITH ESMTPT ID M040FJH027171;
THU, 3 JAN 2008 19:51:19 -0500
RECEIVED: FROM PAPLOO.UHI.AC.UK (APPI.PROD.COLLAB.UHI.AC.UK [194.35.219.184])
BY EYEWITNESS.MR.ITD.UMICH.EDU ID 477D8300.AC098.32562 ;
3 JAN 2008 19:51:15 -0500
RECEIVED: FROM PAPLOO.UHI.AC.UK (LOCALHOST [127.0.0.1])
BY PAPLOO.UHI.AC.UK (POSTFIX) WITH ESMTPT ID E6CC4B9F8A;
FRI, 4 JAN 2008 00:36:06 +0000 (GMT)
MESSAGE-ID: <200801040023.M040NPCC005473@NAKAMURA.UITS.IUPUI.EDU>
MIME-VERSION: 1.0
CONTENT-TRANSFER-ENCODING: 7BIT
RECEIVED: FROM PROD.COLLAB.UHI.AC.UK ([194.35.219.182])
BY PAPLOO.UHI.AC.UK (JAMES SMTP SERVER 2.1.3) WITH SMTP ID 754
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>;
FRI, 4 JAN 2008 00:35:43 +0000 (GMT)
RECEIVED: FROM NAKAMURA.UITS.IUPUI.EDU (NAKAMURA.UITS.IUPUI.EDU [134.68.220.122])
BY SHMI.UHI.AC.UK (POSTFIX) WITH ESMTPT ID 8889842C49
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>; FRI, 4 JAN 2008 00:25:00 +0000 (GMT)
RECEIVED: FROM NAKAMURA.UITS.IUPUI.EDU (LOCALHOST [127.0.0.1])
BY NAKAMURA.UITS.IUPUI.EDU (8.12.11.20060308/8.12.11) WITH ESMTPT ID M040NPGM05475
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>; THU, 3 JAN 2008 19:23:51 -0500
RECEIVED: (FROM APACHE@LOCALHOST)
BY NAKAMURA.UITS.IUPUI.EDU (8.12.11.20060308/8.12.11/SUBMIT) ID M040NPGC005473
FOR SOURCE@COLLAB.SAKAIPROJECT.ORG; THU, 3 JAN 2008 19:23:51 -0500
DATE: THU, 3 JAN 2008 19:23:51 -0500
X-AUTHENTICATION-WARNING: NAKAMURA.UITS.IUPUI.EDU: APACHE SET SENDER TO LOUIS@MEDIA.BERKELEY.EDU USING -F
TO: SOURCE@COLLAB.SAKAIPROJECT.ORG
FROM: LOUIS@MEDIA.BERKELEY.EDU
SUBJECT: [SAKAI] SVN COMMIT: R39749 - IN BSPACE/SITE-MANAGE/SAKAI_2-4-X/SITE-MANAGE-TOOL/TOOL/SRC: BUNDLE WEBAPP/VM/SITESETUP
X-CONTENT-TYPE-OUTER-ENVELOPE: TEXT/PLAIN; CHARSET=UTF-8
X-CONTENT-TYPE-MESSAGE-BODY: TEXT/PLAIN; CHARSET=UTF-8
CONTENT-TYPE: TEXT/PLAIN; CHARSET=UTF-8
X-DSPAM-RESULT: INNOCENT
X-DSPAM-PROCESSED: THU JAN 3 19:51:20 2008
X-DSPAM-CONFIDENCE: 0.6956
X-DSPAM-PROBABILITY: 0.0000

DETAILS: HTTP://SOURCE.SAKAIPROJECT.ORG/VIEWSVN/?VIEW=REV&REV=39749

AUTHOR: LOUIS@MEDIA.BERKELEY.EDU
DATE: 2008-01-03 19:23:46 -0500 (THU, 03 JAN 2008)
NEW REVISION: 39749

MODIFIED:
BSPACE/SITE-MANAGE/SAKAI_2-4-X/SITE-MANAGE-TOOL/TOOL/SRC/BUNDLE/SITESETUPGENERICS.PROPERTIES
BSPACE/SITE-MANAGE/SAKAI_2-4-X/SITE-MANAGE-TOOL/TOOL/SRC/WEBAPP/VM/SITESETUP/CHANGESITE-IMPORTSITES.VM
LOG:
BSP-1420 UPDATE TEXT TO CLARIFY "RE-USE MATERIALS..." OPTION IN WS SETUP

THIS AUTOMATIC NOTIFICATION MESSAGE WAS SENT BY SAKAI COLLAB (HTTPS://COLLAB.SAKAIPROJECT.ORG/PORTAL) FROM THE SOURCE SITE.
YOU CAN MODIFY HOW YOU RECEIVE NOTIFICATIONS AT MY WORKSPACE > PREFERENCES.

FROM LOUIS@MEDIA.BERKELEY.EDU THU JAN 3 17:18:23 2008
RETURN-PATH: <POSTMASTER@COLLAB.SAKAIPROJECT.ORG>
RECEIVED: FROM MURDER (MAIL.UMICH.EDU [141.211.14.91])
BY FRANKENSTEIN.MAIL.UMICH.EDU (CYRUS V2.3.8) WITH LMTPA;
THU, 03 JAN 2008 17:18:23 -0500
X-SIEVE: CMU SIEVE 2.3
RECEIVED: FROM MURDER ([UNIX SOCKET])
BY MAIL.UMICH.EDU (CYRUS V2.2.12) WITH LMTPA;
THU, 03 JAN 2008 17:18:23 -0500
RECEIVED: FROM SALEMSLOT.MR.ITD.UMICH.EDU (SALEMSLOT.MR.ITD.UMICH.EDU [141.211.14.58])
BY JACKKNIFE.MAIL.UMICH.EDU ( ) WITH ESMTPT ID M03MIMXY027729;
THU, 3 JAN 2008 17:18:22 -0500
RECEIVED: FROM PAPLOO.UHI.AC.UK (APPI.PROD.COLLAB.UHI.AC.UK [194.35.219.184])
BY SALEMSLOT.MR.ITD.UMICH.EDU ID 477D5F23.797F6.16348 ;
3 JAN 2008 17:18:14 -0500
RECEIVED: FROM PAPLOO.UHI.AC.UK (LOCALHOST [127.0.0.1])
BY PAPLOO.UHI.AC.UK (POSTFIX) WITH ESMTPT ID EF439B98CE;
THU, 3 JAN 2008 22:18:19 +0000 (GMT)
MESSAGE-ID: <200801032216.M03MGHDA005292@NAKAMURA.UITS.IUPUI.EDU>
MIME-VERSION: 1.0
CONTENT-TRANSFER-ENCODING: 7BIT
RECEIVED: FROM PROD.COLLAB.UHI.AC.UK ([194.35.219.182])
BY PAPLOO.UHI.AC.UK (JAMES SMTP SERVER 2.1.3) WITH SMTP ID 236
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>;
THU, 3 JAN 2008 22:18:04 +0000 (GMT)
RECEIVED: FROM NAKAMURA.UITS.IUPUI.EDU (NAKAMURA.UITS.IUPUI.EDU [134.68.220.122])
BY SHMI.UHI.AC.UK (POSTFIX) WITH ESMTPT ID 905D53C2FD
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>; THU, 3 JAN 2008 22:17:52 +0000 (GMT)
RECEIVED: FROM NAKAMURA.UITS.IUPUI.EDU (LOCALHOST [127.0.0.1])
BY NAKAMURA.UITS.IUPUI.EDU (8.12.11.20060308/8.12.11) WITH ESMTPT ID M03MGHRS005294
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>; THU, 3 JAN 2008 17:16:43 -0500
RECEIVED: (FROM APACHE@LOCALHOST)
BY NAKAMURA.UITS.IUPUI.EDU (8.12.11.20060308/8.12.11/SUBMIT) ID M03MGHDA005292
FOR SOURCE@COLLAB.SAKAIPROJECT.ORG; THU, 3 JAN 2008 17:16:43 -0500
DATE: THU, 3 JAN 2008 17:16:43 -0500
X-AUTHENTICATION-WARNING: NAKAMURA.UITS.IUPUI.EDU: APACHE SET SENDER TO LOUIS@MEDIA.BERKELEY.EDU USING -F
TO: SOURCE@COLLAB.SAKAIPROJECT.ORG
FROM: LOUIS@MEDIA.BERKELEY.EDU
SUBJECT: [SAKAI] SVN COMMIT: R39746 - IN BSPACE/SITE-MANAGE/SAKAI_2-4-X/SITE-MANAGE-TOOL/TOOL/SRC: BUNDLE WEBAPP/VM/SITESETUP
X-CONTENT-TYPE-OUTER-ENVELOPE: TEXT/PLAIN; CHARSET=UTF-8
X-CONTENT-TYPE-MESSAGE-BODY: TEXT/PLAIN; CHARSET=UTF-8
CONTENT-TYPE: TEXT/PLAIN; CHARSET=UTF-8
X-DSPAM-RESULT: INNOCENT
X-DSPAM-PROCESSED: THU JAN 3 17:18:23 2008
X-DSPAM-CONFIDENCE: 0.6959
X-DSPAM-PROBABILITY: 0.0000

DETAILS: HTTP://SOURCE.SAKAIPROJECT.ORG/VIEWSVN/?VIEW=REV&REV=39746

AUTHOR: LOUIS@MEDIA.BERKELEY.EDU
DATE: 2008-01-03 17:16:39 -0500 (THU, 03 JAN 2008)
NEW REVISION: 39746

MODIFIED:
BSPACE/SITE-MANAGE/SAKAI_2-4-X/SITE-MANAGE-TOOL/TOOL/SRC/BUNDLE/SITESETUPGENERICS.PROPERTIES
BSPACE/SITE-MANAGE/SAKAI_2-4-X/SITE-MANAGE-TOOL/TOOL/SRC/WEBAPP/VM/SITESETUP/CHANGESITE-SITEINFO-DUPLICATE.VM
LOG:
BSP-1421 ADD TEXT TO CLARIFY "DUPLICATE SITE" OPTION IN SITE INFO

THIS AUTOMATIC NOTIFICATION MESSAGE WAS SENT BY SAKAI COLLAB (HTTPS://COLLAB.SAKAIPROJECT.ORG/PORTAL) FROM THE SOURCE SITE.
YOU CAN MODIFY HOW YOU RECEIVE NOTIFICATIONS AT MY WORKSPACE > PREFERENCES.

FROM RAY@MEDIA.BERKELEY.EDU THU JAN 3 17:07:00 2008
RETURN-PATH: <POSTMASTER@COLLAB.SAKAIPROJECT.ORG>
RECEIVED: FROM MURDER (MAIL.UMICH.EDU [141.211.14.39])
BY FRANKENSTEIN.MAIL.UMICH.EDU (CYRUS V2.3.8) WITH LMTPA;
THU, 03 JAN 2008 17:07:00 -0500
X-SIEVE: CMU SIEVE 2.3
RECEIVED: FROM MURDER ([UNIX SOCKET])
BY MAIL.UMICH.EDU (CYRUS V2.2.12) WITH LMTPA;
THU, 03 JAN 2008 17:07:00 -0500
RECEIVED: FROM ANNIEHALL.MR.ITD.UMICH.EDU (ANNIEHALL.MR.ITD.UMICH.EDU [141.211.93.141])
BY FAITHFUL.MAIL.UMICH.EDU ( ) WITH ESMTPT ID M03M6XAQ014868;
THU, 3 JAN 2008 17:06:59 -0500
RECEIVED: FROM PAPLOO.UHI.AC.UK (APPI.PROD.COLLAB.UHI.AC.UK [194.35.219.184])
BY ANNIEHALL.MR.ITD.UMICH.EDU ID 477D5C7A.4FE1F.22211 ;
3 JAN 2008 17:06:53 -0500
RECEIVED: FROM PAPLOO.UHI.AC.UK (LOCALHOST [127.0.0.1])
BY PAPLOO.UHI.AC.UK (POSTFIX) WITH ESMTPT ID 0BC8D7225E;
THU, 3 JAN 2008 22:06:57 +0000 (GMT)
MESSAGE-ID: <200801032205.M03M5EA7005273@NAKAMURA.UITS.IUPUI.EDU>
MIME-VERSION: 1.0
CONTENT-TRANSFER-ENCODING: 7BIT
RECEIVED: FROM PROD.COLLAB.UHI.AC.UK ([194.35.219.182])
BY PAPLOO.UHI.AC.UK (JAMES SMTP SERVER 2.1.3) WITH SMTP ID 554
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>;
THU, 3 JAN 2008 22:06:34 +0000 (GMT)
RECEIVED: FROM NAKAMURA.UITS.IUPUI.EDU (NAKAMURA.UITS.IUPUI.EDU [134.68.220.122])
BY SHMI.UHI.AC.UK (POSTFIX) WITH ESMTPT ID 2AB513C2FD
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>; THU, 3 JAN 2008 22:06:23 +0000 (GMT)
RECEIVED: FROM NAKAMURA.UITS.IUPUI.EDU (LOCALHOST [127.0.0.1])
BY NAKAMURA.UITS.IUPUI.EDU (8.12.11.20060308/8.12.11) WITH ESMTPT ID M03M5EQAO05275
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>; THU, 3 JAN 2008 17:05:14 -0500
RECEIVED: (FROM APACHE@LOCALHOST)
BY NAKAMURA.UITS.IUPUI.EDU (8.12.11.20060308/8.12.11/SUBMIT) ID M03M5EA7005273
FOR SOURCE@COLLAB.SAKAIPROJECT.ORG; THU, 3 JAN 2008 17:05:14 -0500
DATE: THU, 3 JAN 2008 17:05:14 -0500
X-AUTHENTICATION-WARNING: NAKAMURA.UITS.IUPUI.EDU: APACHE SET SENDER TO RAY@MEDIA.BERKELEY.EDU USING -F
TO: SOURCE@COLLAB.SAKAIPROJECT.ORG
FROM: RAY@MEDIA.BERKELEY.EDU
SUBJECT: [SAKAI] SVN COMMIT: R39745 - PROVIDERS/TRUNK/CM/CM-AUTHZ-PROVIDER/SRC/JAVA/ORG/SAKAIPROJECT/COURSEMANAGEMENT/IMPL/PROVIDER
X-CONTENT-TYPE-OUTER-ENVELOPE: TEXT/PLAIN; CHARSET=UTF-8
X-CONTENT-TYPE-MESSAGE-BODY: TEXT/PLAIN; CHARSET=UTF-8
CONTENT-TYPE: TEXT/PLAIN; CHARSET=UTF-8
X-DSPAM-RESULT: INNOCENT
X-DSPAM-PROCESSED: THU JAN 3 17:07:00 2008
X-DSPAM-CONFIDENCE: 0.7556
X-DSPAM-PROBABILITY: 0.0000

DETAILS: HTTP://SOURCE.SAKAIPROJECT.ORG/VIEWSVN/?VIEW=REV&REV=39745

AUTHOR: RAY@MEDIA.BERKELEY.EDU
DATE: 2008-01-03 17:05:11 -0500 (THU, 03 JAN 2008)
NEW REVISION: 39745

MODIFIED:
PROVIDERS/TRUNK/CM/CM-AUTHZ-PROVIDER/SRC/JAVA/ORG/SAKAIPROJECT/COURSEMANAGEMENT/IMPL/PROVIDER/COURSEMANAGEMENTGROUP/PROVIDER.JAVA
LOG:
SAK-12602 FIX LOGIC WHEN A USER HAS MULTIPLE ROLES IN A SECTION

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THIS AUTOMATIC NOTIFICATION MESSAGE WAS SENT BY SAKAI COLLAB (HTTPS://COLLAB.SAKAIPROJECT.ORG/PORTAL) FROM THE SOURCE SITE.
YOU CAN MODIFY HOW YOU RECEIVE NOTIFICATIONS AT MY WORKSPACE > PREFERENCES.

FROM CWEN@IUPUI.EDU THU JAN 3 16:34:40 2008
RETURN-PATH: <POSTMASTER@COLLAB.SAKAIPROJECT.ORG>
RECEIVED: FROM MURDER (MAIL.UMICH.EDU [141.211.14.34])
BY FRANKENSTEIN.MAIL.UMICH.EDU (CYRUS V2.3.8) WITH LMTPA;
THU, 03 JAN 2008 16:34:40 -0500
X-SIEVE: CMU SIEVE 2.3
RECEIVED: FROM MURDER ([UNIX SOCKET])
BY MAIL.UMICH.EDU (CYRUS V2.2.12) WITH LMTPA;
THU, 03 JAN 2008 16:34:40 -0500
RECEIVED: FROM ICESTORM.MR.ITD.UMICH.EDU (ICESTORM.MR.ITD.UMICH.EDU [141.211.93.149])
BY CHAOS.MAIL.UMICH.EDU ( ) WITH ESMTPT ID M03LYDYI029538;
THU, 3 JAN 2008 16:34:39 -0500
RECEIVED: FROM PAPLOO.UHI.AC.UK (APPI.PROD.COLLAB.UHI.AC.UK [194.35.219.184])
BY ICESTORM.MR.ITD.UMICH.EDU ID 477D54EA.13F34.26602 ;
3 JAN 2008 16:34:36 -0500
RECEIVED: FROM PAPLOO.UHI.AC.UK (LOCALHOST [127.0.0.1])
BY PAPLOO.UHI.AC.UK (POSTFIX) WITH ESMTPT ID CC710ADC79;
THU, 3 JAN 2008 21:34:29 +0000 (GMT)
MESSAGE-ID: <200801032133.M03LX3GG005191@NAKAMURA.UITS.IUPUI.EDU>
MIME-VERSION: 1.0
CONTENT-TRANSFER-ENCODING: 7BIT
RECEIVED: FROM PROD.COLLAB.UHI.AC.UK ([194.35.219.182])
BY PAPLOO.UHI.AC.UK (JAMES SMTP SERVER 2.1.3) WITH SMTP ID 611
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>;
THU, 3 JAN 2008 21:34:08 +0000 (GMT)
RECEIVED: FROM NAKAMURA.UITS.IUPUI.EDU (NAKAMURA.UITS.IUPUI.EDU [134.68.220.122])
BY SHMI.UHI.AC.UK (POSTFIX) WITH ESMTPT ID 43C4242B55
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>; THU, 3 JAN 2008 21:34:12 +0000 (GMT)
RECEIVED: FROM NAKAMURA.UITS.IUPUI.EDU (LOCALHOST [127.0.0.1])
BY NAKAMURA.UITS.IUPUI.EDU (8.12.11.20060308/8.12.11) WITH ESMTPT ID M03LX3VB005193
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>; THU, 3 JAN 2008 16:33:03 -0500
RECEIVED: (FROM APACHE@LOCALHOST)
BY NAKAMURA.UITS.IUPUI.EDU (8.12.11.20060308/8.12.11/SUBMIT) ID M03LX3GG005191
FOR SOURCE@COLLAB.SAKAIPROJECT.ORG; THU, 3 JAN 2008 16:33:03 -0500
DATE: THU, 3 JAN 2008 16:33:03 -0500
X-AUTHENTICATION-WARNING: NAKAMURA.UITS.IUPUI.EDU: APACHE SET SENDER TO CWEN@IUPUI.EDU USING -F
TO: SOURCE@COLLAB.SAKAIPROJECT.ORG
FROM: CWEN@IUPUI.EDU
SUBJECT: [SAKAI] SVN COMMIT: R39744 - ONCOURSE/BRANCHES/ONCOURSE_OPC_122007/SRC/JAVA/ORG/SAKAIPROJECT/TOOL/GRADEBOOK/UI
X-CONTENT-TYPE-OUTER-ENVELOPE: TEXT/PLAIN; CHARSET=UTF-8
X-CONTENT-TYPE-MESSAGE-BODY: TEXT/PLAIN; CHARSET=UTF-8
CONTENT-TYPE: TEXT/PLAIN; CHARSET=UTF-8
X-DSPAM-RESULT: INNOCENT
X-DSPAM-PROCESSED: THU JAN 3 16:34:40 2008
X-DSPAM-CONFIDENCE: 0.9846
X-DSPAM-PROBABILITY: 0.0000

DETAILS: HTTP://SOURCE.SAKAIPROJECT.ORG/VIEWSVN/?VIEW=REV&REV=39744

AUTHOR: CWEN@IUPUI.EDU
DATE: 2008-01-03 16:33:02 -0500 (THU, 03 JAN 2008)
NEW REVISION: 39744

MODIFIED:
ONCOURSE/BRANCHES/ONCOURSE_OPC_122007/EXTERNALS
LOG:
UPDATE EXTERNAL FOR GB.

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THIS AUTOMATIC NOTIFICATION MESSAGE WAS SENT BY SAKAI COLLAB (HTTPS://COLLAB.SAKAIPROJECT.ORG/PORTAL) FROM THE SOURCE SITE.
YOU CAN MODIFY HOW YOU RECEIVE NOTIFICATIONS AT MY WORKSPACE > PREFERENCES.

FROM CWEN@IUPUI.EDU THU JAN 3 16:29:07 2008
RETURN-PATH: <POSTMASTER@COLLAB.SAKAIPROJECT.ORG>
RECEIVED: FROM MURDER (MAIL.UMICH.EDU [141.211.14.46])
BY FRANKENSTEIN.MAIL.UMICH.EDU (CYRUS V2.3.8) WITH LMTPA;
THU, 03 JAN 2008 16:29:07 -0500
X-SIEVE: CMU SIEVE 2.3
RECEIVED: FROM MURDER ([UNIX SOCKET])
BY MAIL.UMICH.EDU (CYRUS V2.2.12) WITH LMTPA;
THU, 03 JAN 2008 16:29:07 -0500
RECEIVED: FROM GALAXYQUEST.MR.ITD.UMICH.EDU (GALAXYQUEST.MR.ITD.UMICH.EDU [141.211.93.145])
BY PAN.MAIL.UMICH.EDU ( ) WITH ESMTPT ID M03LT6UW027749;
THU, 3 JAN 2008 16:29:06 -0500
RECEIVED: FROM PAPLOO.UHI.AC.UK (APPI.PROD.COLLAB.UHI.AC.UK [194.35.219.184])
BY GALAXYQUEST.MR.ITD.UMICH.EDU ID 477D5397.E161D.20326 ;
3 JAN 2008 16:28:58 -0500
RECEIVED: FROM PAPLOO.UHI.AC.UK (LOCALHOST [127.0.0.1])
BY PAPLOO.UHI.AC.UK (POSTFIX) WITH ESMTPT ID DEC65ADC79;
THU, 3 JAN 2008 21:28:52 +0000 (GMT)
MESSAGE-ID: <200801032127.M03LRUQH005177@NAKAMURA.UITS.IUPUI.EDU>
MIME-VERSION: 1.0
CONTENT-TRANSFER-ENCODING: 7BIT
RECEIVED: FROM PROD.COLLAB.UHI.AC.UK ([194.35.219.182])
BY PAPLOO.UHI.AC.UK (JAMES SMTP SERVER 2.1.3) WITH SMTP ID 917
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>;
THU, 3 JAN 2008 21:28:39 +0000 (GMT)
RECEIVED: FROM NAKAMURA.UITS.IUPUI.EDU (NAKAMURA.UITS.IUPUI.EDU [134.68.220.122])
BY SHMI.UHI.AC.UK (POSTFIX) WITH ESMTPT ID 1FBB042B30
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>; THU, 3 JAN 2008 21:28:38 +0000 (GMT)
RECEIVED: FROM NAKAMURA.UITS.IUPUI.EDU (LOCALHOST [127.0.0.1])
BY NAKAMURA.UITS.IUPUI.EDU (8.12.11.20060308/8.12.11) WITH ESMTPT ID M03LRUE4005179
FOR <SOURCE@COLLAB.SAKAIPROJECT.ORG>; THU, 3 JAN 2008 16:27:30 -0500
RECEIVED: (FROM APACHE@LOCALHOST)
BY NAKAMURA.UITS.IUPUI.EDU (8.12.11.20060308/8.12.11/SUBMIT) ID M03LRUQH005177
FOR SOURCE@COLLAB.SAKAIPROJECT.ORG; THU, 3 JAN 2008 16:27:30 -0500
DATE: THU, 3 JAN 2008 16:27:30 -0500
X-AUTHENTICATION-WARNING: NAKAMURA.UITS.IUPUI.EDU: APACHE SET SENDER TO CWEN@IUPUI.EDU USING -F
TO: SOURCE@COLLAB.SAKAIPROJECT.ORG
FROM: CWEN@IUPUI.EDU
SUBJECT: [SAKAI] SVN COMMIT: R39743 - GRADEBOOK/BRANCHES/ONCOURSE_2-4-2/APP/UI/SRC/JAVA/ORG/SAKAIPROJECT/TOOL/GRADEBOOK/UI
X-CONTENT-TYPE-OUTER-ENVELOPE: TEXT/PLAIN; CHARSET=UTF-8
X-CONTENT-TYPE-MESSAGE-BODY: TEXT/PLAIN; CHARSET=UTF-8
CONTENT-TYPE: TEXT/PLAIN; CHARSET=UTF-8
X-DSPAM-RESULT: INNOCENT
X-DSPAM-PROCESSED: THU JAN 3 16:29:07 2008
X-DSPAM-CONFIDENCE: 0.8509
X-DSPAM-PROBABILITY: 0.0000

DETAILS: HTTP://SOURCE.SAKAIPROJECT.ORG/VIEWSVN/?VIEW=REV&REV=39743

AUTHOR: CWEN@IUPUI.EDU
DATE: 2008-01-03 16:27:29 -0500 (THU, 03 JAN 2008)
NEW REVISION: 39743

MODIFIED:
GRADEBOOK/BRANCHES/ONCOURSE_2-4-2/APP/UI/SRC/JAVA/ORG/SAKAIPROJECT/TOOL/GRADEBOOK/UI/ROSTERBEAN.JAVA
LOG:
SVN MERGE -C 35014 HTTPS://SOURCE.SAKAIPROJECT.ORG/SVN/GRADEBOOK/TRUNK
APP/UI/SRC/JAVA/ORG/SAKAIPROJECT/TOOL/GRADEBOOK/UI/ROSTERBEAN.JAVA

SVN LOG -R 35014 HTTPS://SOURCE.SAKAIPROJECT.ORG/SVN/GRADEBOOK/TRUNK
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R39403 | WAGNERMR@IUPUI.EDU | 2007-09-12 16:17:59 -0400 (WED, 12 SEP 2007) | 3 LINES

SAK-11458
HTTP://BUGS.SAKAIPROJECT.ORG/JIRA/BROWSE/SAK-11458
COURSE GRADE DOES NOT APPEAR ON "ALL GRADES" PAGE IF NO CATEGORIES IN GB
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THIS AUTOMATIC NOTIFICATION MESSAGE WAS SENT BY SAKAI COLLAB (HTTPS://COLLAB.SAKAIPROJECT.ORG/PORTAL) FROM THE SOURCE SITE.
YOU CAN MODIFY HOW YOU RECEIVE NOTIFICATIONS AT MY WORKSPACE > PREFERENCES.
```

Program 2:

Write a program to prompt for a file name, and then read through the file and look for lines of the form:

X-DSPAM-Confidence: 0.8475

When you encounter a line that starts with "X-DSPAM-Confidence:" pull apart the line to extract the floating-point number on the line. Count these lines and then compute the total of the spam confidence values from these lines. When you reach the end of the file, print out the average spam confidence.

```
Enter the file name: mbox.txt<
Average spam confidence: 0.894128046745
Enter the file name: mbox-short.txt
Average spam confidence: 0.750718518519.

In [19]: lines = []
        sumNumbers = 0
        count = 0

        with open(input("Enter a file name: ")) as stream:
            lines = stream.readlines()

        for line in lines:
            if line.startswith("X-DSPAM-Confidence: "):
                sumNumbers += float(line[len("X-DSPAM-Confidence: "):])
                count+=1

        print(f"Average spam confidence: {sumNumbers/count}")

Average spam confidence: 0.7507185185185187
```