In [158]:
```python
#reading file
file=open('test_emails.txt','r')
file.read()
```

keja, Lagos-Nigeria.\n\nAfter the sudden death of the former Head of state of
Nigeria General Sanni Abacha on June 8th 1998 his aides and immediate members
of his family were arrested while trying to escape from Nigeria in a Chartere
d jet to Saudi Arabia with 6 trunk boxes Marked "Diplomatic Baggage". Acting
on a tip-off as they attempted to board the Air Craft,my officials carried ou
t a thorough search on the air craft and discovered that the 6 trunk boxes co
ntained foreign currencies amounting to US$197,570,000.00(One Hundred and Ni
nety-Seven Million Five Hundred Seventy Thousand United States Dollars).\n\nI
declared only (5) five boxes to the government and withheld one (1) in my cus
tody containing the sum of (US$30,000,000.00) Thirty Million United States Do
llars Only, which has been disguised to prevent their being discovered during
transportation process.Due to several media reports on the late head of state
about all the money him and his co-government officials stole from our govern
ment treasury amounting\nto US$55 Billion Dollars (ref:ngrguardiannews.com) o
f July 2nd 1999. Even the London times of July 1998 reported that General Aba
cha has over US$3.Billion dollars in one account overseas. We decided to conc
eal this one (1)box till the situation is calm and quite on the issue. The bo
x was thus deposited with a security company here in Nigeria and tagged as "P
recious Stones and Jewellry" in other that its\ncontent will not be discovere
d. Now that all is calm, we (myself and two of my colleagues in the operation

In [165]:
```python
import re
```

In [166]:
```python
#reading content of the file
file=open('test_emails.txt','r')
content=file.read()
content
```

Out[166]: 'From r Thu Oct 31 08:11:39 2002\nReturn-Path: <bensul2004nng@spinfinder.com>\nX-Sieve: cmu-sieve 2.0\nReturn-Path: <bensul2004nng@spinfinder.com>\nMessage-Id: <200210311310.g9VDANt24674@bloodwork.mr.itd.UM>\nFrom: "Mr. Ben Suleman" <bensul2004nng@spinfinder.com>\nDate: Thu, 31 Oct 2002 05:10:00\nTo: R@M\nSubject: URGENT ASSISTANCE /RELATIONSHIP (P)\nMIME-Version: 1.0\nContent-Type: text/plain;charset="iso-8859-1"\nContent-Transfer-Encoding: 7bit\nStatus: O\n\nDear Friend,\n\nI am Mr. Ben Suleman a custom officer and work as Assistant controller of the Customs and Excise department Of the Federal Ministry of Internal Affairs stationed at the Murtala Mohammed International Airport, Ikeja, Lagos-Nigeria.\n\nAfter the sudden death of the former Head of state of Nigeria General Sanni Abacha on June 8th 1998 his aides and immediate members of his family were arrested while trying to escape from Nigeria in a Chartered jet to Saudi Arabia with 6 trunk boxes Marked "Diplomatic Baggage". Acting on a tip-off as they attempted to board the Air Craft,my officials carried out a thorough search on the air craft and discovered that the 6 trunk boxes contained foreign currencies amounting to US$197,570,000.00(One Hundred and Ninety-Seven Million Five Hundred Seventy Thousand United States Dollars).\n\nI declared only (5) five boxes to the government and withheld one (1) in my custody containing the sum of (US$30,000,000.00) Thirty Million United States Dollars Only, which has been disguised to prevent their being discovered during transportation process.Due to several media reports on the late head of state about all the money him and his co-government officials stole from our government treasury amounting\nto US$55 Billion Dollars (ref:ngrguardiannews.com) of July 2nd 1999. Even the London times of July 1998 reported that General Abacha has over US$3.Billion dollars in one account overseas. We decided to conceal this one (1)box till the situation is calm and quite on the issue. The box was thus deposited with a security company here in Nigeria and tagged as "Precious Stones and Jewellry" in other that its\ncontent will not be discovered. Now that all is calm, we (myself and two of my colleagues in the operations team) are now ready to move this box out of the country through a diplomatic arrangement which is the safest means. \n\nHowever as government officials the Civil Service Code of Conduct does not allow us by law to operate any foreign account or own foreign investment and the amount of money that can be found in our account\ncannot be more than our salary on the average, thus our handicapp and our need for your assistance to help collect and keep safely in your account this money.\n\nTherefore we want you to assist us in moving this money out of Nigeria. We shall definitely compensate you handsomely for the assistance. We can do this by instructing the Security Company here in Nigeria to\nmove the consignment to their affiliate branch office outside Nigeria through diplomatic means and the consignment will be termed as Precious Stones and Jewelleries" which you bought during your visit to Nigeria and is being transfered to your country from here for safe keeping. Then we can arrange to meet at the destination country to take the delivery of the consignment. You will thereafter open an account there and lodge the Money there and gradually instruct remittance to your Country. \n\nThis business is 100% risk free for you so please treat this matter with utmost confidentiality .If you indicate your interest to assist us please just e-mail me for more Explanation on how we plan to execute the transaction.\n\nExpecting your response urgently.\n\nBest regards,\n\nMr. Ben Suleman\n\nFrom r Thu Oct 31 17:27:16 2002\nReturn-Path: <obong_715@epatra.com>\nX-Sieve: cmu-sieve 2.0\nReturn-Path: <obong_715@epatra.com>\nMessage-Id: <200210312227.g9VMQvDj017948@bluewhale.cs.CU>\nFrom: "PRINCE OBONG ELEME" <obong_715@epatra.com>\nReply-To: obong_715@epatra.com\nTo: webmaster@aclweb.org

\nDate: Thu, 31 Oct 2002 22:17:55 +0100\nSubject: GOOD DAY TO YOU\nX-Mailer: Microsoft Outlook Express 5.00.2919.6900DM\nMIME-Version: 1.0\nContent-Type: text/plain; charset="us-ascii"\nContent-Transfer-Encoding: 8bit\nX-MIME-Autoconverted: from quoted-printable to 8bit by sideshowmel.si.UM id g9VMRBW20642\nStatus: RO\n\nFROM HIS ROYAL MAJESTY (HRM) CROWN RULER OF ELEME KINGDOM \nCHIEF DANIEL ELEME, PHD, EZE 1 OF ELEME.E-MAIL \nADDRESS:obong_715@epatra.com \n\nATTENTION:PRESIDENT,CEO Sir/ Madam. \n\nThis letter might surprise you because we have met\nneither in person nor by correspondence. But I believe\nit is one day that you got to know somebody either in\nphysical or through correspondence. \n\nI got your contact through discreet inquiry from the\nchambers of commerce and industry of your country on\nthe net, you and your organization were revealed as\nbeing quite astute in private entrepreneurship, one\nhas no doubt in your ability to handle a financialbusiness transaction. \nHowever, I am the first son of His Royal\nmajesty,Obong.D. Eleme , and the traditional Ruler of\nEleme Province in the oil producing area of River\nState of Nigeria. I am making this contact to you in\nrespect of US$60,000,000.00 (Sixty Million United\nState Dollars), which I inherited, from my latefather. \n\nThis money was accumulated from royalties paid to my\nfather as compensation by the oil firms located in our\narea as a result of oil presence on our land, which\nhamper agriculture, which is our major source oflivelihood. \n\nUnfortunately my father died from protracted\ndiabetes.But before his death he called my attention\nand informed me that he lodged some funds on a two\nboxes with a security firm with an open beneficiary\nstatus. The lodgment security code number was also\nrevealed to me, he then advised me to look for a\nreliable business partner abroad, that will assist me\nin investing the money in a lucrative business as a\nresult of economic instability in Nigeria. So this is\nthe main reason why I am contacting you for us to move\nthis money from the security firm to any Country of\nyour choice for investment purpose. \n\nSo I will like you to be the ultimate beneficiary, so\nthat the funds can be moved in your name and\nparticulars to any Country of your choice where it\nwill be claimed and invested. Hence my father have had\nintimated the security firm personnel that the\nbeneficiary of the box is his foreign partner whose\nparticulars will be forwarded to the firm when due. \n\nBut I will guide you Accordingly. As soon as the funds\nreach, I will then come over to meet you in person, so\nthat we can discuss physically on investment\npotentials. Based on this assistance my Family and I\nhave unanimously decided to give you 30% of the total\nmoney, 5% for Charity home, 10% for expenses, which\nmay arise during this transaction, Fax and phone bills\ninclusive. The balance of 55% you will invest andmanaged for my Family. \n\nI hereby guarantee you that this is not government\nmoney, it is not drug money and it is not money from\narms deal. Though you have to maintain high degree of\nconfidentiality on this matter. I will give more\ndetails about the proceedings of this transaction as\nsoon as I receive your favorable reply. \n\nPlease reply to my Email Address:obong_715@epatra.com\nI hope this will be the beginning of a prosperous\nrelationship between my family and your family. \n\nNevertheless if you are for any reason not interested,\nkindly inform me immediately so that I will look foranother contact. \n\nI am waiting for your quick response. \n\nYours faithfully, \n\nPrince Obong Abbot '

In [172]:
```python
file=open('test_emails.txt','r')
content=file.read()
# print(content)
fromText=re.findall(r'From:.*',content)
print(fromText)
```

['From: "Mr. Ben Suleman" <bensul2004nng@spinfinder.com>', 'From: "PRINCE OBONG
ELEME" <obong_715@epatra.com>']

In [173]:
```python
name=[]
for name1 in fromText:
    name.append(re.findall(r'[\"][A-Z].*[\"]',name1))
print(name)
```

[['"Mr. Ben Suleman"'], ['"PRINCE OBONG ELEME"']]

In [177]:
```python
file=open('test_emails.txt','r')
content=file.read()

fromText=re.findall(r'From:.*',content)

email1=[]
for line in fromText:
    email1.append(re.findall(r'\w\S*@.*\w',line))
#       print(email1)
print(email1)
```

[['bensul2004nng@spinfinder.com'], ['obong_715@epatra.com']]

In [182]:
```python
firstEmail=[]

for email in fromText:
    firstEmail.append(re.findall(r'\w\S*@',email))

print(firstEmail)
```

[['bensul2004nng@'], ['obong_715@']]

In [184]:
```python
lastEmail=[]

for email in fromText:
    lastEmail.append(re.findall(r'@.*\w',email))

print(lastEmail)
# l_email=re.findall(r'[a-z]{6,10}\.com',content)
# l_email
```

[['@spinfinder.com'], ['@epatra.com']]

```
In [188]: file=open('test_emails.txt','r')
          content=file.readlines()

          data=[]
          for x in content:
              print(x.strip())
              data.append(x.strip())
```

money, 5% for Charity home, 10% for expenses, which
may arise during this transaction, Fax and phone bills
inclusive. The balance of 55% you will invest andmanaged for my Family.

I hereby guarantee you that this is not government
money, it is not drug money and it is not money from
arms deal. Though you have to maintain high degree of
confidentiality on this matter. I will give more
details about the proceedings of this transaction as
soon as I receive your favorable reply.

Please reply to my Email Address:obong_715@epatra.com
I hope this will be the beginning of a prosperous
relationship between my family and your family.

Nevertheless if you are for any reason not interested,

kindly inform me immediately so that I will look foranother contact.

I am waiting for your quick response.

```
In [189]: data
```

```
Out[189]: ['From r  Thu Oct 31 08:11:39 2002',
           'Return-Path: <bensul2004nng@spinfinder.com>',
           'X-Sieve: cmu-sieve 2.0',
           'Return-Path: <bensul2004nng@spinfinder.com>',
           'Message-Id: <200210311310.g9VDANt24674@bloodwork.mr.itd.UM>',
           'From: "Mr. Ben Suleman" <bensul2004nng@spinfinder.com>',
           'Date: Thu, 31 Oct 2002 05:10:00',
           'To: R@M',
           'Subject: URGENT ASSISTANCE /RELATIONSHIP (P)',
           'MIME-Version: 1.0',
           'Content-Type: text/plain;charset="iso-8859-1"',
           'Content-Transfer-Encoding: 7bit',
           'Status: O',
           '',
           'Dear Friend,',
           '',
           'I am Mr. Ben Suleman a custom officer and work as Assistant controller of t
           he Customs and Excise department Of the Federal Ministry of Internal Affairs
           stationed at the Murtala Mohammed International Airport, Ikeja, Lagos-Nigeri
```

```
In [190]: data=list(filter(''.__ne__,data))
```

In [191]: `data`

```
        'have unanimously decided to give you 30% of the total',
        'money, 5% for Charity home, 10% for expenses, which',
        'may arise during this transaction, Fax and phone bills',
        'inclusive. The balance of 55% you will invest andmanaged for my Family.',
        'I hereby guarantee you that this is not government',
        'money, it is not drug money and it is not money from',
        'arms deal. Though you have to maintain high degree of',
        'confidentiality on this matter. I will give more',
        'details about the proceedings of this transaction as',
        'soon as I receive your favorable reply.',
        'Please reply to my Email Address:obong_715@epatra.com',
        'I hope this will be the beginning of a prosperous',
        'relationship between my family and your family.',
        'Nevertheless if you are for any reason not interested,',
        'kindly inform me immediately so that I will look foranother contact.',
        'I am waiting for your quick response.',
        'Yours faithfully,',
        'Prince Obong Abbot']
```

In [192]:
```python
new=open('newtext.txt','w')
for x in data:
    new.write(x)
```

In [193]:
```python
new=open('newtext.txt','r')
emails=new.read()
emails
```

Out[193]: 'From r Thu Oct 31 08:11:39 2002Return-Path: <bensul2004nng@spinfinder.com>X-Sieve: cmu-sieve 2.0Return-Path: <bensul2004nng@spinfinder.com>Message-Id: <200210311310.g9VDANt24674@bloodwork.mr.itd.UM>From: "Mr. Ben Suleman" <bensul2004nng@spinfinder.com>Date: Thu, 31 Oct 2002 05:10:00To: R@MSubject: URGENT ASSISTANCE /RELATIONSHIP (P)MIME-Version: 1.0Content-Type: text/plain;charset="iso-8859-1"Content-Transfer-Encoding: 7bitStatus: ODear Friend,I am Mr. Ben Suleman a custom officer and work as Assistant controller of the Customs and Excise department Of the Federal Ministry of Internal Affairs stationed at the Murtala Mohammed International Airport, Ikeja, Lagos-Nigeria.After the sudden death of the former Head of state of Nigeria General Sanni Abacha on June 8th 1998 his aides and immediate members of his family were arrested while trying to escape from Nigeria in a Chartered jet to Saudi Arabia with 6 trunk boxes Marked "Diplomatic Baggage". Acting on a tip-off as they attempted to board the Air Craft,my officials carried out a thorough search on the air craft and discovered that the 6 trunk boxes contained foreign currencies amounting to US$197,570,000.00(One Hundred and Ninety-Seven Million Five Hundred Seventy Thousand United States Dollars).I declared only (5) five boxes to the government and withheld one (1) in my custody containing the sum of (US$30,000,000.00) Thirty Million United States Dollars Only, which has been disguised to prevent their being discovered during transportation process.Due to several media reports on the late head of state about all the money him and his co-government officials stole from our government treasury amountingto US$55 Billion Dollars (ref:ngrguardiannews.com) of July 2nd 1999. Even the London times of July 1998 reported that General Abacha has over US$3.Billion dollars in one account overseas. We decided to conceal this one (1)box till the situation is calm and quite on the issue. The box was thus deposited with a security company here in Nigeria and tagged as "Precious Stones and Jewellry" in other that itscontent will not be discovered. Now that all is calm, we (myself and two of my colleagues in the operations team) are now ready to move this box out of the country through a diplomatic arrangement which is the safest means.However as government officials the Civil Service Code of Conduct does not allow us by law to operate any foreign account or own foreign investment and the amount of money that can be found in our accountcannot be more than our salary on the average, thus our handicapp and our need for your assistance to help collect and keep safely in your account this money.Therefore we want you to assist us in moving this money out of Nigeria. We shall definitely compensate you handsomely for the assistance. We can do this by instructing the Security Company here in Nigeria tomove the consignment to their affiliate branch office outside Nigeria through diplomatic means and the consignment will be termed as Precious Stones and Jewelleries" which you bought during your visit to Nigeria and is being transfered to your country from here for safe keeping. Then we can arrange to meet at the destination country to take the delivery of the consignment. You will thereafter open an account there and lodge the Money there and gradually instruct remittance to your Country.This business is 100% risk free for you so please treat this matter with utmost confidentiality .If you indicate your interest to assist us please just e-mail me for more Explanation on how we plan to execute the transaction.Expecting your response urgently.Best regards,Mr. Ben SulemanFrom r Thu Oct 31 17:27:16 2002Return-Path: <obong_715@epatra.com>X-Sieve: cmu-sieve 2.0Return-Path: <obong_715@epatra.com>Message-Id: <200210312227.g9VMQvDj017948@bluewhale.cs.CU>From: "PRINCE OBONG ELEME" <obong_715@epatra.com>Reply-To: obong_715@epatra.comTo: webmaster@aclweb.orgDate: Thu, 31 Oct 2002 22:17:55 +0100Subject: GOOD DAY TO YOUX-Maile

r: Microsoft Outlook Express 5.00.2919.6900DMMIME-Version: 1.0Content-Type: t
ext/plain; charset="us-ascii"Content-Transfer-Encoding: 8bitX-MIME-Autoconver
ted: from quoted-printable to 8bit by sideshowmel.si.UM id g9VMRBW20642Statu
s: ROFROM HIS ROYAL MAJESTY (HRM) CROWN RULER OF ELEME KINGDOMCHIEF DANIEL EL
EME, PHD, EZE 1 OF ELEME.E-MAILADDRESS:obong_715@epatra.comATTENTION:PRESIDEN
T,CEO Sir/ Madam.This letter might surprise you because we have metneither in
person nor by correspondence. But I believeit is one day that you got to know
somebody either inphysical or through correspondence.I got your contact throu
gh discreet inquiry from thechambers of commerce and industry of your country
onthe net, you and your organization were revealed asbeing quite astute in pr
ivate entrepreneurship, onehas no doubt in your ability to handle a financial
business transaction.However, I am the first son of His Royalmajesty,Obong.D.
Eleme , and the traditional Ruler ofEleme Province in the oil producing area
of RiverState of Nigeria. I am making this contact to you inrespect of US$60,
000,000.00 (Sixty Million UnitedState Dollars), which I inherited, from my la
tefather.This money was accumulated from royalties paid to myfather as compen
sation by the oil firms located in ourarea as a result of oil presence on our
land, whichhamper agriculture, which is our major source oflivelihood.Unfortu
nately my father died from protracteddiabetes.But before his death he called
my attentionand informed me that he lodged some funds on a twoboxes with a se
curity firm with an open beneficiarystatus. The lodgment security code number
was alsorevealed to me, he then advised me to look for areliable business par
tner abroad, that will assist mein investing the money in a lucrative busines
s as aresult of economic instability in Nigeria. So this isthe main reason wh
y I am contacting you for us to movethis money from the security firm to any
Country ofyour choice for investment purpose.So I will like you to be the ult
imate beneficiary, sothat the funds can be moved in your name andparticulars
to any Country of your choice where itwill be claimed and invested. Hence my
father have hadintimated the security firm personnel that thebeneficiary of t
he box is his foreign partner whoseparticulars will be forwarded to the firm
when due.But I will guide you Accordingly. As soon as the fundsreach, I will
then come over to meet you in person, sothat we can discuss physically on inv
estmentpotentials. Based on this assistance my Family and Ihave unanimously d
ecided to give you 30% of the totalmoney, 5% for Charity home, 10% for expens
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balance of 55% you will invest andmanaged for my Family.I hereby guarantee yo
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his matter. I will give moredetails about the proceedings of this transaction
assoon as I receive your favorable reply.Please reply to my Email Address:obo
ng_715@epatra.comI hope this will be the beginning of a prosperousrelationshi
p between my family and your family.Nevertheless if you are for any reason no
t interested,kindly inform me immediately so that I will look foranother cont
act.I am waiting for your quick response.Yours faithfully,Prince Obong Abbot'

```
In [197]:  emailList=emails.split('From r ')
           emailList
```

```
Out[197]:  ['',
           ' Thu Oct 31 08:11:39 2002Return-Path: <bensul2004nng@spinfinder.com>X-Sieve:
           cmu-sieve 2.0Return-Path: <bensul2004nng@spinfinder.com>Message-Id: <2002103113
           10.g9VDANt24674@bloodwork.mr.itd.UM>From: "Mr. Ben Suleman" <bensul2004nng@spin
           finder.com>Date: Thu, 31 Oct 2002 05:10:00To: R@MSubject: URGENT ASSISTANCE /RE
           LATIONSHIP (P)MIME-Version: 1.0Content-Type: text/plain;charset="iso-8859-1"Con
           tent-Transfer-Encoding: 7bitStatus: ODear Friend,I am Mr. Ben Suleman a custom
           officer and work as Assistant controller of the Customs and Excise department O
           f the Federal Ministry of Internal Affairs stationed at the Murtala Mohammed In
           ternational Airport, Ikeja, Lagos-Nigeria.After the sudden death of the former
           Head of state of Nigeria General Sanni Abacha on June 8th 1998 his aides and im
           mediate members of his family were arrested while trying to escape from Nigeria
           in a Chartered jet to Saudi Arabia with 6 trunk boxes Marked "Diplomatic Baggag
           e". Acting on a tip-off as they attempted to board the Air Craft,my officials c
           arried out a thorough search on the air craft and discovered that the 6 trunk b
           oxes contained foreign currencies amounting to US$197,570,000.00(One Hundred an
           d  Ninety-Seven Million Five Hundred Seventy Thousand United States Dollars).I
           declared only (5) five boxes to the government and withheld one (1) in my custo
           dy containing the sum of (US$30,000,000.00) Thirty Million United States Dollar
           s Only, which has been disguised to prevent their being discovered during trans
           portation process.Due to several media reports on the late head of state about
           all the money him and his co-government officials stole from our government tre
           asury amountingto US$55 Billion Dollars (ref:ngrguardiannews.com) of July 2nd 1
           999. Even the London times of July 1998 reported that General Abacha has over U
           S$3.Billion dollars in one account overseas. We decided to conceal this one (1)
           box till the situation is calm and quite on the issue. The box was thus deposit
           ed with a security company here in Nigeria and tagged as "Precious Stones and J
           ewellry" in other that itscontent will not be discovered. Now that all is calm,
           we (myself and two of my colleagues in the operations team) are now ready to mo
           ve this box out of the country through a diplomatic arrangement which is the sa
           fest means.However as government officials the Civil Service Code of Conduct do
           es not allow us by law to operate any foreign account or own foreign investment
           and the amount of money that can be found in our accountcannot be more than our
           salary on the average, thus our handicapp and our need for your assistance to h
           elp collect and keep safely in your account this money.Therefore we want you to
           assist us in moving this money out of Nigeria. We shall definitely compensate y
           ou handsomely for the assistance. We can do this by instructing the Security Co
           mpany here in Nigeria tomove the consignment to their affiliate branch office o
           utside Nigeria through diplomatic means and the consignment will be termed as P
           recious Stones and Jewelleries" which you bought during your visit to Nigeria a
           nd is being transfered to your country from here for safe keeping. Then we can
           arrange to meet at the destination country to take the delivery of the consignm
           ent. You will thereafter open an account there and lodge the Money there and gr
           adually instruct remittance to your Country.This business is 100% risk free for
           you so please treat this matter with utmost confidentiality .If you indicate yo
           ur interest to assist us please just e-mail me for more Explanation on how we p
           lan to execute the transaction.Expecting your response urgently.Best regards,M
           r. Ben Suleman',
           ' Thu Oct 31 17:27:16 2002Return-Path: <obong_715@epatra.com>X-Sieve: cmu-siev
           e 2.0Return-Path: <obong_715@epatra.com>Message-Id: <200210312227.g9VMQvDj01794
           8@bluewhale.cs.CU>From: "PRINCE OBONG ELEME" <obong_715@epatra.com>Reply-To: ob
           ong_715@epatra.comTo: webmaster@aclweb.orgDate: Thu, 31 Oct 2002 22:17:55 +0100
           Subject: GOOD DAY TO YOUX-Mailer: Microsoft Outlook Express 5.00.2919.6900DMMIM
```

E-Version: 1.0Content-Type: text/plain; charset="us-ascii"Content-Transfer-Encoding: 8bitX-MIME-Autoconverted: from quoted-printable to 8bit by sideshowmel.si.UM id g9VMRBW20642Status: ROFROM HIS ROYAL MAJESTY (HRM) CROWN RULER OF ELEME KINGDOMCHIEF DANIEL ELEME, PHD, EZE 1 OF ELEME.E-MAILADDRESS:obong_715@epatra.comATTENTION:PRESIDENT,CEO Sir/ Madam.This letter might surprise you because we have metneither in person nor by correspondence. But I believeit is one day that you got to know somebody either inphysical or through correspondence.I got your contact through discreet inquiry from thechambers of commerce and industry of your country onthe net, you and your organization were revealed asbeing quite astute in private entrepreneurship, onehas no doubt in your ability to handle a financialbusiness transaction.However, I am the first son of His Royalmajesty,Obong.D. Eleme , and the traditional Ruler ofEleme Province in the oil producing area of RiverState of Nigeria. I am making this contact to you inrespect of US $60,000,000.00 (Sixty Million UnitedState Dollars), which I inherited, from my latefather.This money was accumulated from royalties paid to myfather as compensation by the oil firms located in ourarea as a result of oil presence on our land, whichhamper agriculture, which is our major source oflivelihood.Unfortunately my father died from protracteddiabetes.But before his death he called my attentionand informed me that he lodged some funds on a twoboxes with a security firm with an open beneficiarystatus. The lodgment security code number was also revealed to me, he then advised me to look for areliable business partner abroad, that will assist mein investing the money in a lucrative business as aresult of economic instability in Nigeria. So this isthe main reason why I am contacting you for us to movethis money from the security firm to any Country ofyour choice for investment purpose.So I will like you to be the ultimate beneficiary, sothat the funds can be moved in your name andparticulars to any Country of your choice where itwill be claimed and invested. Hence my father have hadintimated the security firm personnel that thebeneficiary of the box is his foreign partner whoseparticulars will be forwarded to the firm when due.But I will guide you Accordingly. As soon as the fundsreach, I will then come over to meet you in person, sothat we can discuss physically on investmentpotentials. Based on this assistance my Family and Ihave unanimously decided to give you 30% of the total money, 5% for Charity home, 10% for expenses, whichmay arise during this transaction, Fax and phone billsinclusive. The balance of 55% you will invest andmanaged for my Family.I hereby guarantee you that this is not governmentmoney, it is not drug money and it is not money fromarms deal. Though you have to maintain high degree ofconfidentiality on this matter. I will give moredetails about the proceedings of this transaction assoon as I receive your favorable reply.Please reply to my Email Address:obong_715@epatra.comI hope this will be the beginning of a prosperousrelationship between my family and your family.Nevertheless if you are for any reason not interested,kindly inform me immediately so that I will look foranother contact.I am waiting for your quick response.Yours faithfully,Prince Obong Abbot']

In [198]:
```python
emailList.pop(0)
```

Out[198]: ''

In [199]: `emailList[1]`

Out[199]: ' Thu Oct 31 17:27:16 2002Return-Path: <obong_715@epatra.com>X-Sieve: cmu-sieve 2.0Return-Path: <obong_715@epatra.com>Message-Id: <200210312227.g9VMQvDj017948@ bluewhale.cs.CU>From: "PRINCE OBONG ELEME" <obong_715@epatra.com>Reply-To: obong_715@epatra.comTo: webmaster@aclweb.orgDate: Thu, 31 Oct 2002 22:17:55 +0100Subject: GOOD DAY TO YOUX-Mailer: Microsoft Outlook Express 5.00.2919.6900DMMIME-Version: 1.0Content-Type: text/plain; charset="us-ascii"Content-Transfer-Encoding: 8bitX-MIME-Autoconverted: from quoted-printable to 8bit by sideshowmel.si.UM id g9VMRBW20642Status: ROFROM HIS ROYAL MAJESTY (HRM) CROWN RULER OF ELEME KINGDOMCHIEF DANIEL ELEME, PHD, EZE 1 OF ELEME.E-MAILADDRESS:obong_715@epatra.com ATTENTION:PRESIDENT,CEO Sir/ Madam.This letter might surprise you because we have metneither in person nor by correspondence. But I believeit is one day that you got to know somebody either inphysical or through correspondence.I got your contact through discreet inquiry from thechambers of commerce and industry of your country onthe net, you and your organization were revealed asbeing quite astute in private entrepreneurship, onehas no doubt in your ability to handle a financialbusiness transaction.However, I am the first son of His Royalmajesty,Obong.D. Eleme , and the traditional Ruler ofEleme Province in the oil producing area of RiverState of Nigeria. I am making this contact to you inrespect of US $60,000,000.00 (Sixty Million UnitedState Dollars), which I inherited, from my latefather.This money was accumulated from royalties paid to myfather as compensation by the oil firms located in ourarea as a result of oil presence on our land, whichhamper agriculture, which is our major source oflivelihood.Unfortunately my father died from protracteddiabetes.But before his death he called my attentionand informed me that he lodged some funds on a twoboxes with a security firm with an open beneficiarystatus. The lodgment security code number was also revealed to me, he then advised me to look for areliable business partner abroad, that will assist mein investing the money in a lucrative business as aresult of economic instability in Nigeria. So this isthe main reason why I am contacting you for us to movethis money from the security firm to any Country ofyour choice for investment purpose.So I will like you to be the ultimate beneficiary, sothat the funds can be moved in your name andparticulars to any Country of your choice where itwill be claimed and invested. Hence my father have hadintimated the security firm personnel that thebeneficiary of the box is his foreign partner whoseparticulars will be forwarded to the firm when due.But I will guide you Accordingly. As soon as the fundsreach, I will then come over to meet you in person, sothat we can discuss physically on investmentpotentials. Based on this assistance my Family and Ihave unanimously decided to give you 30% of the total money, 5% for Charity home, 10% for expenses, whichmay arise during this transaction, Fax and phone billsinclusive. The balance of 55% you will invest andmanaged for my Family.I hereby guarantee you that this is not governmentmoney, it is not drug money and it is not money fromarms deal. Though you have to maintain high degree ofconfidentiality on this matter. I will give moredetails about the proceedings of this transaction assoon as I receive your favorable reply.Please reply to my Email Address:obong_715@epatra.comI hope this will be the beginning of a prosperousrelationship between my family and your family.Nevertheless if you are for any reason not interested,kindly inform me immediately so that I will look foranother contact.I am waiting for your quick response.Yours faithfully,Prince Obong Abbot'

In [200]:
```python
# printing
import email
for content in emailList:
    text=re.search(r'From:.{49}',content)

    sender_email=re.search(r'\w\S*@.*\w',text.group())
    print(sender_email.group())

    sender_name=re.search(r'[\"][A-Z].*[\"]',text.group())
    print(sender_name.group())

    recepient=re.search(r'To:.{20}',content)

    recepient_email=re.search(r'\w\S*@.*\w',recepient.group())
    print(recepient_email.group())

    recepient_name=re.search(r':.*<',recepient.group())
    print( recepient_name)

    date=re.findall(r'[A-Z]{1}[a-z]{2}\s[A-Za-z]{3}\s[\d]{2}',content)
    print(date)

    subject=re.search(r'Subject: .{31}',content)
    print(subject.group())


    mail = email.message_from_string(content)
    email_body=mail.get_payload()
    print(email_body)
```

```
bensul2004nng@spinfinder.com
"Mr. Ben Suleman"
R@MSubject: URGENT
None
['Thu Oct 31']
Subject: URGENT ASSISTANCE /RELATIONSHIP

obong_715@epatra.com>Reply
"PRINCE OBONG ELEME"
obong_715@epatra.co
None
['Thu Oct 31']
Subject: GOOD DAY TO YOUX-Mailer: Micros
```