## **ASSIGNMENT NO: 02**

/*		
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*/		
Probl	blem Statement:	
Write a program in C++ /Python to analyse an email header		
Objec	ectives:	
1. To obtain email headers.		
Code: import imaplib import email from email.header import decode_header		
from a	n argparse import ArgumentParser	
<pre>parser = ArgumentParser(description="Get email using imap") parser.add_argument("-u", "username", help="Gmail Address", type=str) parser.add_argument("-p", "password", help="password", type=str) args = parser.parse_args()</pre>		
= args	t = "imap.gmail.com" username gs.username password = s.password	
	p = imaplib.IMAP4_SSL(host) #create p.login(username, password)	e an IMAP4 class with SSL
status	us, total_email_id = imap.select("INBOX")	#select folder from where email

is being fetched

```
total email id = int(messages[0])
                                               # total number of emails indexed by
latest email recieved
current = total email id
                                            #get the latest email id
res, msg = imap.fetch(str(current), "(RFC822)")
                                                  #fetch email by ID
for response in msg:
  if isinstance(response, tuple):
     msg = email.message from bytes(response[1])
                                                           # parse email into a
message object and decode it
     subject = decode_header(msg["Subject"])[0][0]
     if isinstance(subject, bytes):
       subject = subject.decode()
     from = msg.get("From")
     print("Subject:", subject)
     print("From:", from )
     if msg.is multipart():
                                          # if the email message is multipart
       for part in msg.walk():
          # extract content type of email
          content_type = part.get_content_type()
          content disposition = str(part.get("Content-Disposition"))
          try:
            body = part.get payload(decode=True).decode()
                                                                   # get the email
body
          except:
             pass
          if content type == "text/plain" and "attachment" not in content disposition:
             print(body)
     else:
       content_type = msg.get_content_type()
                                                      #get content type of email
       body = msg.get payload(decode=True).decode() # get the email body if
       content type == "text/plain":
          print(body)
imap.close()
imap.logout()
Input: Email and Password
Output: Headers of Email
Platform: Ubuntu 20.04
```

Programming Language Used: Python.

Conclusion: Hence, we obtained the headers of the mails.