

The second task of this laboratory session is to implement a script called **smutt** which simulates the linux command **mutt** (for e-mail management, specified below) and which also provides the functionality necessary *to use the* stenography on data to transmit (using the **steghide** command specified below).

With the command **mutt** we can read and write e-mails, in particular, the command can be used with these parameters:

mutt [-s subj] [-a file] addr -a file is a file to send as an attachment -s subj is the subject of mail to write addr is the recipient address.

steghide is a command for execution of stenography operations, for examples inserting data in a graphic file any file type. It can be invoked as:

steghide embed -cf cfilename -ef efilename -sf sfilename

embed means that it is performed a insert operation of a file inside another graphic file

-cf cfilename is a graphic file for *embedding operation*

-ef efilename is the file to hide

-sf sfilename is the name of the output file

Python script **smutt** should be invoked as follows:

steghide -ef efilename -sf sfilename address

The script should:

1. read from standard input an original file where to embed the content of **efilename** (this can be specified with the **-ef** parameter) and then make a stenograph-ed file **sfilename** using the **steghide** command
2. send as attachment via e-mail the new file **sfilename** to specified address **address** with the **mutt** command.

Other alternatives to **mutt** can be used provided they can handle attachments (e.g. *mailx*)