**STEGHIDE**

Create a Python script called **smutt.py** able to hide a file inside an image and send the output image as attachment using mutt service.

In order to hide a file inside an image we can use ***stenography*** technique. **Steghide** command can be used in order to complete the exercise.

**The mutt command**

**mutt** can be used to read and write emails. The synopsis of the command is the following:

mutt [-s subj] email\_addresses -a file

-a 🡪 used to specify a list of attachments

-s 🡪 used to specify the email subject

email\_addresses 🡪 a list of addresses that will receive our email

**The steghide command**

**steghide** is a a steganography program able to hide information inside other files. The synopsis of the command is the following:

steghide embed –cf cfilename -ef efilename –sf sfilename

-cf cfilename 🡪 is a graphic file for *embedding operation* (also called cover file)

-ef efilename 🡪 is the file to hide inside the cover file

-sf sfilename 🡪 is the name of the output file that will be created. If not specified, the cover file will be overwritten with the new file produced by **steghide**

embed 🡪 Embed secret data in a cover file thereby creating a stegofile

**smutt.py** scriptshould be invoked as follows:

python3 smutt.py –ef efilename –cf cfilename -sf sfilename address

The script should:

1. embed efilename inside cfilename producing a new file sfilename using the steghide command
2. send sfilename as an attachment to the specified email addresses address using the mutt command