

# 7402 Documentation and Testing

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# User Guide

The following is an extract for the normal output of the program

```
if /path/to/otp doesnt exist it will be created, otherwise it will be used as is
if any file is empty it will be treated as non existent
usage: ./otp.py /path/to/otp
    if no additional files are specified stdin and stdout will be used
usage: ./otp.py /path/to/otp /operation/file
    if /operation/file doesnt exist stdin is assumed as input and the output will be written to /operation/file
    if /operation/file exists it will be used as input and output will be written to stdout
usage: ./otp.py /path/to/otp /path/to/input /path/to/output
    /path/to/input will be written to /path/to/output
```

# Testing

Test	Steps	Result
Print usage	./otp.py	<pre> 18:15:54masterisaac@HMS-Brixford:7402_asn3 ➔ ./otp.py if /path/to/otp doesnt exist it will be created, otherwise it will be used as is if any file is empty it will be treated as non existent usage: ./otp.py /path/to/otp if no additional files are specified stdin and stdout will be used usage: ./otp.py /path/to/otp /operation/file if /operation/file doesnt exist stdin is assumed as input and the output will be written to /operation/file if /operation/file exists it will be used as input and output will be written to stdout usage: ./otp.py /path/to/otp /path/to/input /path/to/output /path/to/input will be written to /path/to/output </pre>
Encrypt file	./otp.py pad LICENSE output	<pre> 18:19:50masterisaac@HMS-Brixford:7402_asn3 ➔ ll -rw-r--r-- 1.1k isaac  3 Feb  6:18 LICENSE -rwxr-xr-x 3.3k isaac 13 Feb 18:11 otp.py -rw-r--r-- 11 isaac  3 Feb  0:18 README.md 18:17:50masterisaac@HMS-Brixford:7402_asn3 ➔ ./otp.py pad LICENSE output 18:19:18masterisaac@HMS-Brixford:7402_asn3 ➔ cat output E 9u n "H &gt;JRVp  "b (CVC)af "bv-&gt;0_U"(U2ib,Wh 6"PCx' cFJu"2[2uqx() 0 :n-d k-c u0 s v&amp;N -/ C107h (vD4)  E82eh? P x kRha(Vj\$ K"McHix t_g202[ Vz'  MF-  z"x  00z'  &amp;rjH8)" Kn z. \$ha /  &gt;3e+?  =a] 1^ 1bb0  7 r( op0  +Fr  c  M" It=  tuEq3u(en  +c3  k  s  V/eS  ,) "AA uL "Lhe"de 9R  L p  Vms0,ze  23, 23] uG  , Zkze  )  1&gt;872h  (  e  A  18:19:18masterisaac@HMS-Brixford:7402_asn3 ➔ </pre>
Decrypt file	./otp.py pad LICENSE output	<pre> 18:22:35masterisaac@HMS-Brixford:7402_asn3 ➔ cat original MIT License  Copyright (c) 2019 Isaac  Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. </pre>
Generate new pads	./otp.py pad LICENSE output	<pre> 18:33:17masterisaac@HMS-Brixford:7402_asn3 ➔ ./otp.py pad LICENSE output 18:34:08masterisaac@HMS-Brixford:7402_asn3 ➔ sha256sum output cae1a46a4d7f6a9469ebd052f928939ccafc1c9233e13887fedcfb12d8ff5514  output 18:34:10masterisaac@HMS-Brixford:7402_asn3 ➔ rm pad 18:34:11masterisaac@HMS-Brixford:7402_asn3 ➔ ./otp.py pad LICENSE output 18:34:14masterisaac@HMS-Brixford:7402_asn3 ➔ sha256sum output a166bd5d9bfeb3cddf4e707388044d1e166d52e21de1eadf35692b60f1bd780d  output 18:34:17masterisaac@HMS-Brixford:7402_asn3 ➔ </pre>