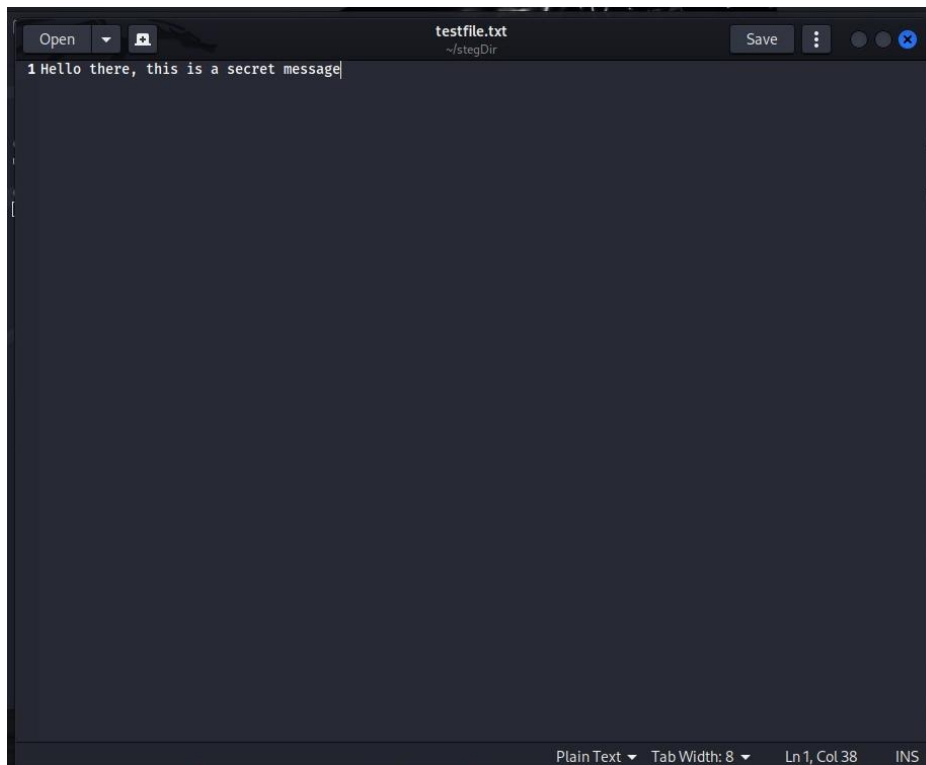
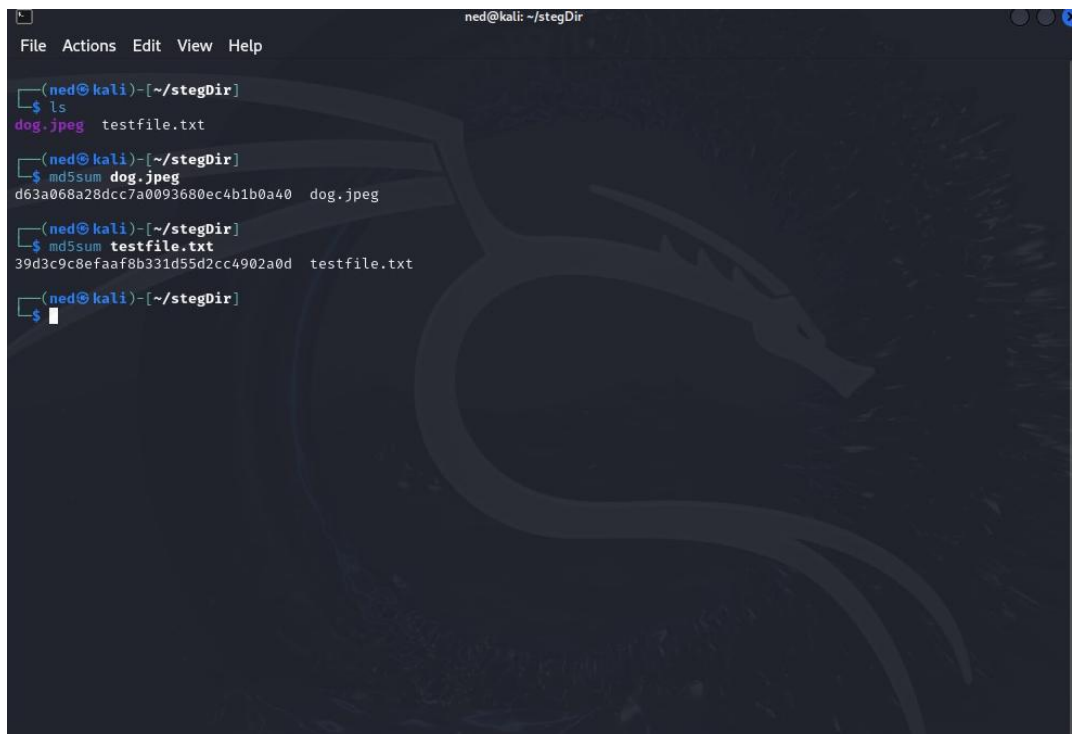


Task 4:



A screenshot of a text editor window titled "testfile.txt" with the path "~/stegDir". The window contains a single line of text: "Hello there, this is a secret message". The editor has a dark theme and a status bar at the bottom showing "Plain Text", "Tab Width: 8", "Ln 1, Col 38", and "INS".

Tasks 6-7:



A screenshot of a terminal window titled "ned@kali: ~/stegDir". The terminal shows the following commands and output:

```
(ned@kali)~/stegDir
$ ls
dog.jpeg  testfile.txt

(ned@kali)~/stegDir
$ md5sum dog.jpeg
d63a068a28dcc7a0093680ec4b1b0a40  dog.jpeg

(ned@kali)~/stegDir
$ md5sum testfile.txt
39d3c9c8efaaf8b331d55d2cc4902a0d  testfile.txt

(ned@kali)~/stegDir
$
```

Task 8:

```
File Actions Edit View Help
ned@kali: ~/stegDir

(ned@kali)~/stegDir
$ steghide embed -cf dog.jpeg -ef testfile.txt
Enter passphrase:
Re-Enter passphrase:
embedding "testfile.txt" in "dog.jpeg" ... done

(ned@kali)~/stegDir
$
```

Task 9:

```
File Actions Edit View Help
ned@kali: ~/stegDir

(ned@kali)~/stegDir
$ steghide info dog.jpeg
"dog.jpeg":
  format: jpeg
  capacity: 318.0 Byte
Try to get information about embedded data ? (y/n) y
Enter passphrase:
embedded file "testfile.txt":
  size: 38.0 Byte
  encrypted: rijndael-128, cbc
  compressed: yes

(ned@kali)~/stegDir
$
```

Task 10:

```
ned@kali: ~/stegDir
File Actions Edit View Help

(ned@kali)~[~/stegDir]
$ steghide info dog.jpeg
"dog.jpeg":
  format: jpeg
  capacity: 318.0 Byte
Try to get information about embedded data ? (y/n) y
Enter passphrase:
  embedded file "testfile.txt":
    size: 38.0 Byte
    encrypted: rijndael-128, cbc
    compressed: yes

(ned@kali)~[~/stegDir]
$
```

Task 11:

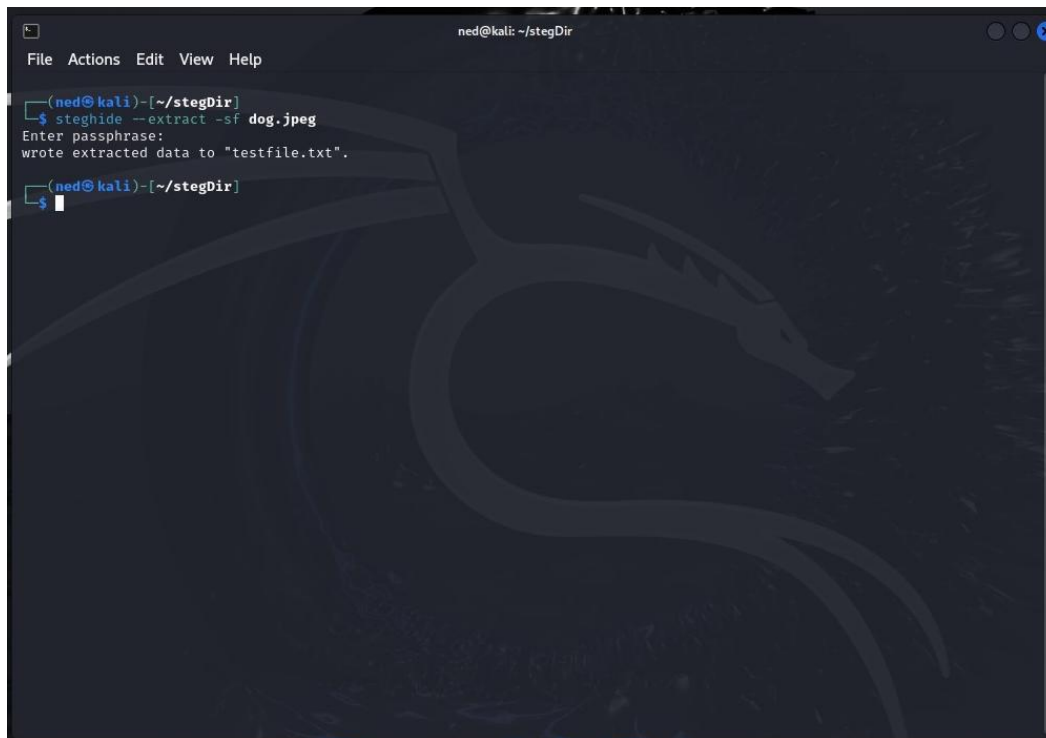
```
ned@kali: ~/stegDir
File Actions Edit View Help

(ned@kali)~[~/stegDir]
$ rm testfile.txt

(ned@kali)~[~/stegDir]
$ ls
dog.jpeg

(ned@kali)~[~/stegDir]
$
```

Task 12:

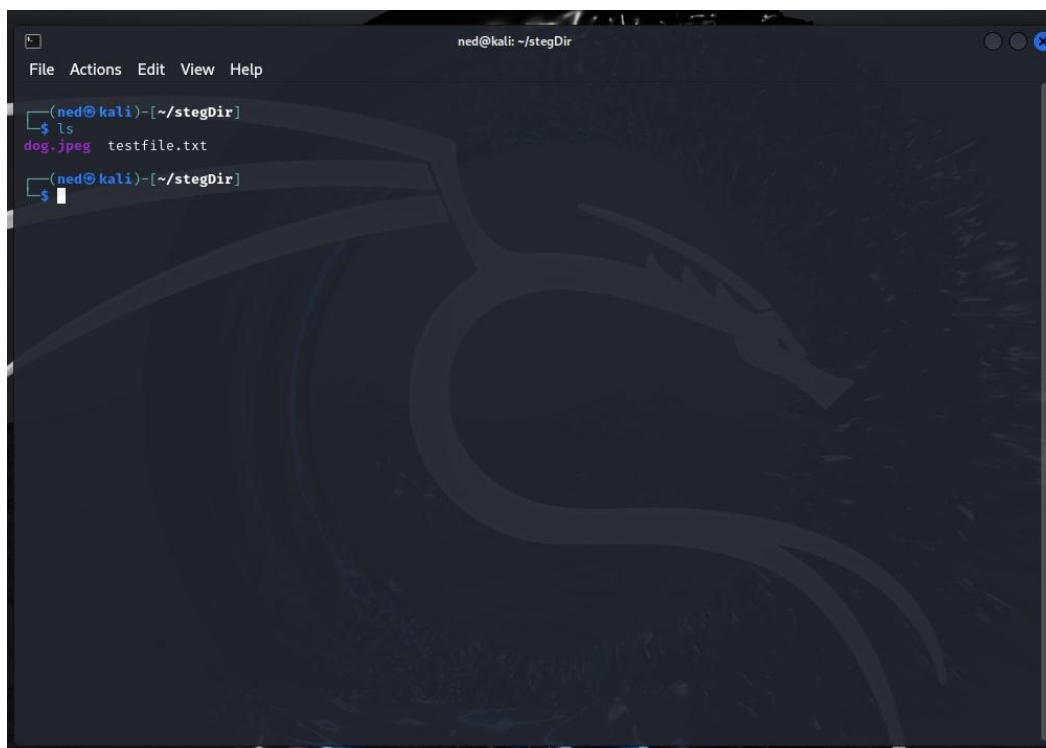
A terminal window titled 'ned@kali: ~/stegDir' with a menu bar (File, Actions, Edit, View, Help). The prompt is '(ned@kali)-[~/stegDir]'. The user enters '\$ steghide --extract -sf dog.jpeg'. The terminal shows 'Enter passphrase:' followed by a blank line, and then 'wrote extracted data to "testfile.txt".'. The prompt returns to '\$'.

```
ned@kali: ~/stegDir
File Actions Edit View Help

(ned@kali)-[~/stegDir]
$ steghide --extract -sf dog.jpeg
Enter passphrase:
wrote extracted data to "testfile.txt".

(ned@kali)-[~/stegDir]
$
```

Task 13:

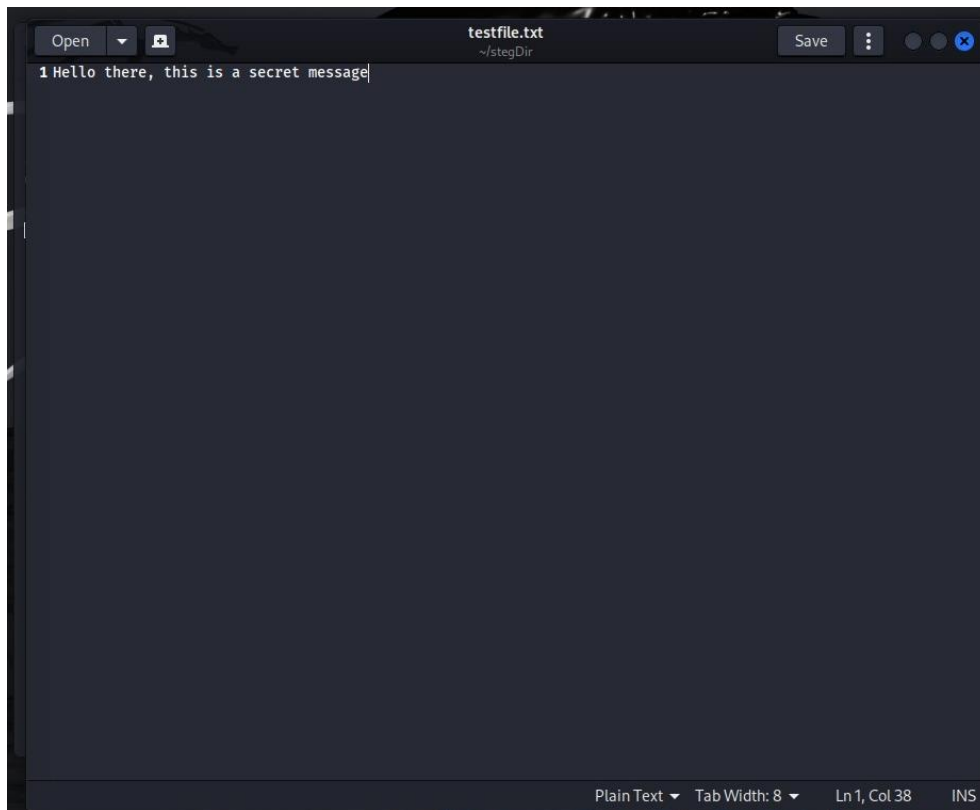
A terminal window titled 'ned@kali: ~/stegDir' with a menu bar (File, Actions, Edit, View, Help). The prompt is '(ned@kali)-[~/stegDir]'. The user enters '\$ ls'. The terminal shows 'dog.jpeg' and 'testfile.txt' in a light blue font. The prompt returns to '\$'.

```
ned@kali: ~/stegDir
File Actions Edit View Help

(ned@kali)-[~/stegDir]
$ ls
dog.jpeg  testfile.txt

(ned@kali)-[~/stegDir]
$
```

Task 14:



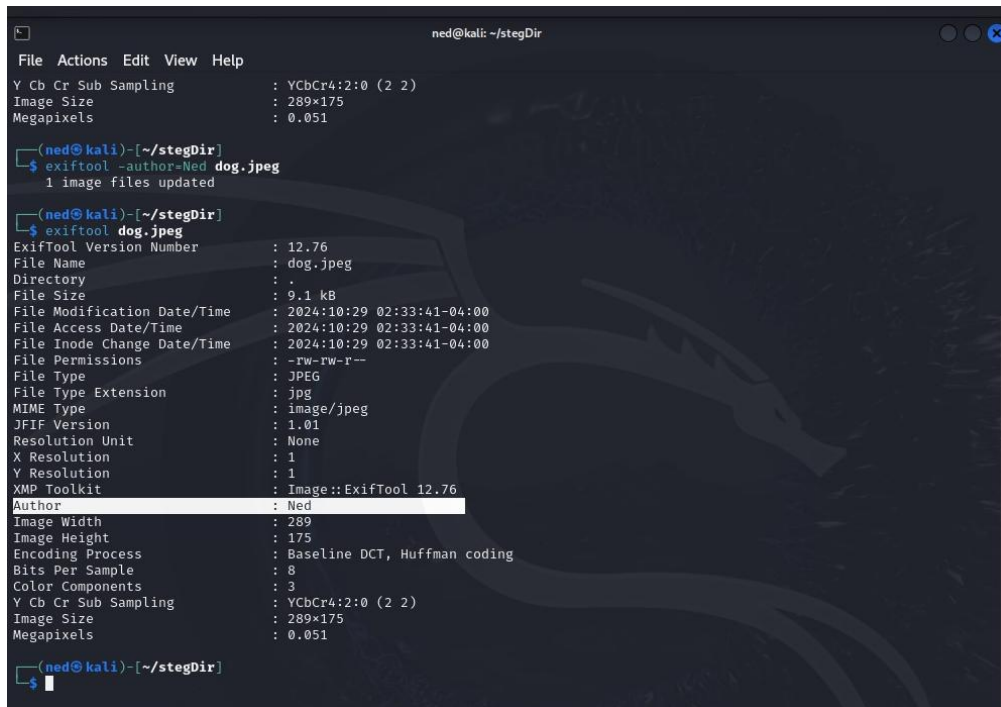
A screenshot of a text editor window titled "testfile.txt" with the path "~/stegDir". The window contains a single line of text: "1 Hello there, this is a secret message". The status bar at the bottom indicates "Plain Text", "Tab Width: 8", "Ln 1, Col 38", and "INS".

```
testfile.txt
~/stegDir

1 Hello there, this is a secret message

Plain Text ▾ Tab Width: 8 ▾ Ln 1, Col 38 INS
```

Task 17:



A screenshot of a terminal window titled "ned@kali: ~/stegDir". The terminal shows the execution of the "exiftool" command to add an author to a file named "dog.jpeg". The output displays the file's metadata, including file size, modification date, permissions, and EXIF data.

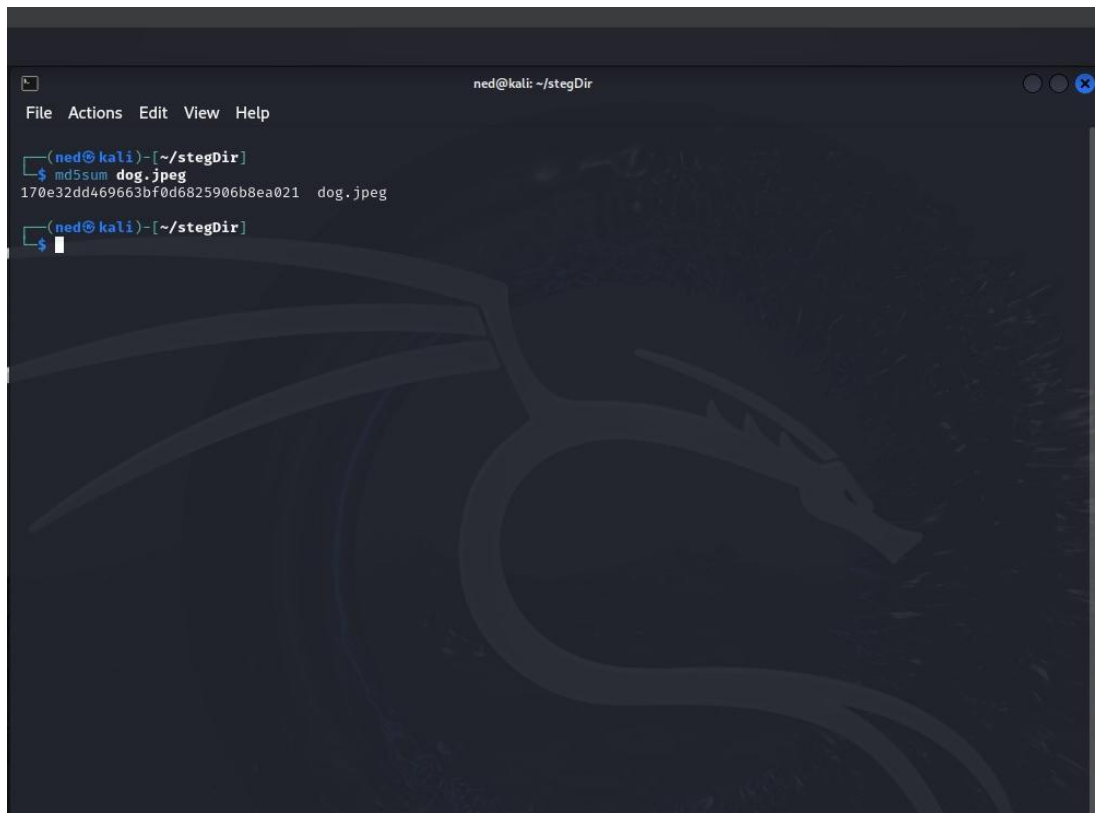
```
ned@kali: ~/stegDir
File Actions Edit View Help
Y Cb Cr Sub Sampling : YCbCr4:2:0 (2 2)
Image Size           : 289x175
Megapixels           : 0.051

(ned@kali)-[~/stegDir]
$ exiftool -author=Ned dog.jpeg
1 image files updated

(ned@kali)-[~/stegDir]
$ exiftool dog.jpeg
ExifTool Version Number : 12.76
File Name               : dog.jpeg
Directory               : .
File Size               : 9.1 kB
File Modification Date/Time : 2024:10:29 02:33:41-04:00
File Access Date/Time    : 2024:10:29 02:33:41-04:00
File Inode Change Date/Time : 2024:10:29 02:33:41-04:00
File Permissions        : -rw-rw-r--
File Type               : JPEG
File Type Extension     : jpg
MIME Type               : image/jpeg
JFIF Version            : 1.01
Resolution Unit         : None
X Resolution            : 1
Y Resolution            : 1
XMP Toolkit             : Image::ExifTool 12.76
Author                 : Ned
Image Width             : 289
Image Height            : 175
Encoding Process        : Baseline DCT, Huffman coding
Bits Per Sample         : 8
Color Components        : 3
Y Cb Cr Sub Sampling    : YCbCr4:2:0 (2 2)
Image Size              : 289x175
Megapixels              : 0.051

(ned@kali)-[~/stegDir]
$
```

Task 18:

A terminal window titled 'ned@kali: ~/stegDir' with a menu bar (File, Actions, Edit, View, Help) and a dark background featuring a faint dragon logo. The terminal shows the command 'md5sum dog.jpeg' being executed, resulting in the output '170e32dd469663bf0d6825906b8ea021 dog.jpeg'. A second prompt is visible below the output.

```
ned@kali: ~/stegDir
File Actions Edit View Help

(ned@kali)-[~/stegDir]
$ md5sum dog.jpeg
170e32dd469663bf0d6825906b8ea021 dog.jpeg

(ned@kali)-[~/stegDir]
$
```