## Digital Forensics Lab

## Assignment-File System Identification using The Sleuth Kit

## Steps -

1. Download and unzip 'The Sleuth Kit' window's binary from its official website (https://www.sleuthkit.org/sleuthkit/download.php).

## Download

Download Version 4.10.1 (Nov 9, 2020) of The Sleuth Kit®:

- Source Code
- Windows Binaries
- Download forensic image of drive from digital forensics workbook's website (http://www.digitalforensicsworkbook.com/data-sets)

```
Forensic Images.zip will contain the following files:
(These files are separated on this website to make the large files easier to download.)

drive1.E01 | MD5: 2ccfa510ee28712b01544594f4fad721 | SHA1: 2baa0524e34a684e615061829b21d6b33cd906f8

drive2.E01 | MD5: 977365ee7ec72480469c1d915e5974d2 | SHA1: 154efb62fd5515000d89d4b254e921c62edf342a

drive3.E01 | MD5: 994512dbe6759ae7766b0e2fe4d9ec8a | SHA1: b5da7ecdbf904e1cca65007858d2ee0807284c19

drive4.E01 | MD5: 3e81eb20ded1ae8c6ffc936d5613aacd | SHA1: e1d34bf072df9df86d864df675667ccd02c6840e

drive5.E01 | MD5: 36d849ecdeeb67e04911884346f93a15 | SHA1: 1b5891715365033800c632a4c19fd4770627dc2a
```

 Open command prompt and change current directory to C:\Users\user\Desktop\sleuthkit-4.10.1-win32\bin\

```
C:\Users\user>cd Desktop\sleuthkit-4.10.1-win32\bin\
C:\Users\user\Desktop\sleuthkit-4.10.1-win32\bin>echo Devang
Devang
C:\Users\user\Desktop\sleuthkit-4.10.1-win32\bin>fsstat -i ewf C:\Users\user\Desktop\drive1.E01
```

- Use command fsstat -i ewf C:\Users\user\Desktop\drive1.E01{location of forensic drive in this case}
- 5. We can see lot of things in the report generated by command like type of file system, sector size and cluster size.

