

## D. B. J. COLLEGE, CHIPLUN

Page No.:

## DEPARTMENT OF COMPUTER SCIENCE

Expt. No.	Name: Piyush Pandurang Burate Class: TYCS Roll No.: 523  Title of Experiment: Data Acquisition  Sub titles: Assignment/ Problem Solution, Flow chart/Algorithm, Problem Listing,
	Aim 8- To study about Acquisition:  - Perform data acquisition using  - USB write blocker t encase imager  - SATA write blocker t encase imager  - Falcon imaging device.
	Software/Hardware Requirements 3- FTK imager, regedit printer,  Theory:-
	Data acquisition is the process of making a forensics image From computer media such as hard drive, thumb drives, servers and other media that stores electronic data including gaming console and other devices.  The forensic image, not the original media is used by the forensic examiner to conduct the
	The data acquisition process includes the recording of all serial numbers and other
Remark	marking using a digital camera.  The Forensic image is verified against the original to ensure the forensic image is an exact duplicate of the original media.
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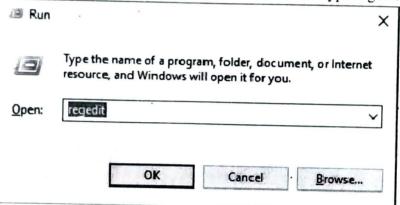
	Creating Forensic imager using S/W and
	H/W write blacker.
	Both S/M and H/M write blackers are
	available softmore unite blockers are
	versatile and come in two flavours. One
	is module that 'Plugs' in to into the
	Forensic S/W par and can generally be used
	to write block any port on the computer.
	The other method of software write
-	blocking is to use a forensic boot disk. This
	will boot the computer system from the
	HD. Developing checklists that can be
	repeatable procedure is an ideal way to ensure solid result in any investigation.
	to ensure solid result in any investigation.
-	Conclusion:
	By using FTK imager we perform data
	acquisition.
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## **Practical 2: Data Acquisition:**

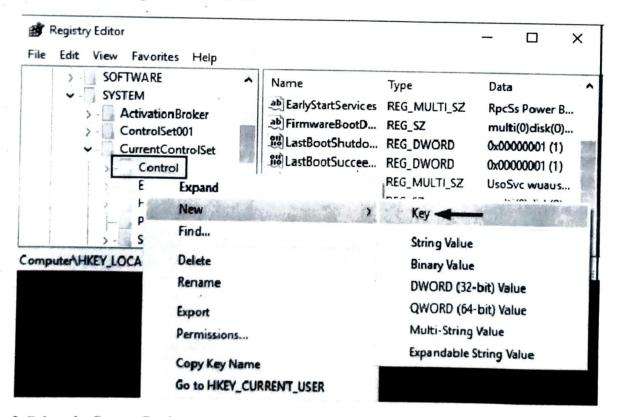
## Steps:

Enable USB Write Block in Windows 10, 8 and 7 using registry

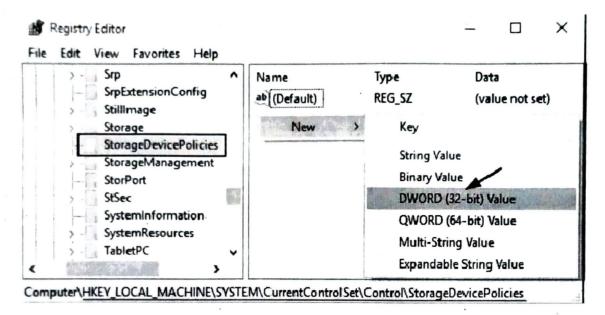
1. Press the Windows key + R to open the Run box. Type regedit and press Enter.



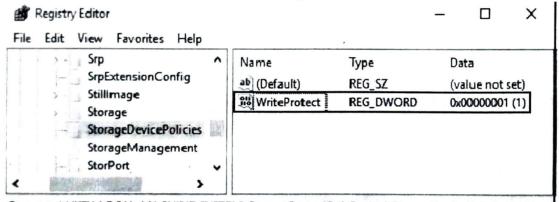
- 2. This will open the Registry Editor. Navigate to the following key: HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control
- 3. Right-click on the Control key in the left pane, select New -> Key.
- 4. Name it as StorageDevicePolicies.



5. Select the StorageDevicePolicies key in the left pane, then right-click on any empty space in the right pane and select New -> DWORD (32-bit) Value. Name it WriteProtect.



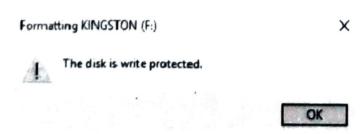
6. Double-click on WriteProtect and then change the value data from 0 to 1.



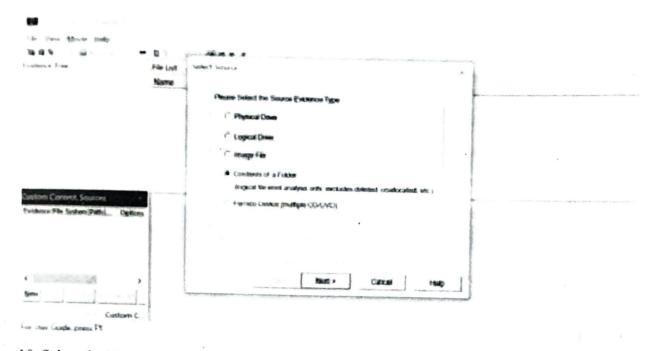
Computer\HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControl\Set\Control\StorageDevicePolicies

- 7. The new setting takes effect immediately. Every user who tries to copy / move data to USB devices or format USB drive will get the error message
- "The disk is write-protected".
- 8. We can only open the file in the USB drive for reading, but it's not allowed to modify and save the changes back to USB drive.

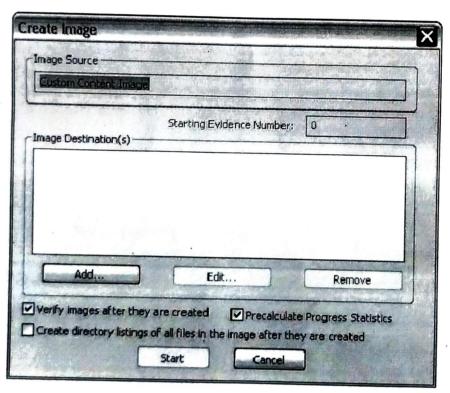
So this is how you can enable write protection to all connected USB drives. If you want to disable write protection at a later time, just open Registry Editor and set the WriteProtect value to 0.



9. Now Create image of the USB drive using FTK imager



10. Select the USB drive folder by browsing and click next & Finish 11.In the Create Image dialog, click Add.



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