Aim: Using Steganography tools [S-Tools].

Step 1: Select the **S-Tools.exe file** and open the **steganography** software tool**.**
• S-Tools Window Open
Step 2: With both the working directory and the S-Tools program open minimize both windows and place side-by-side. The S-Tools program is a drag and drop software. The files used to create the steganography file can be dragged from the directory into the S-Tools program.
Step 3: If your image is in .jpg format, convert it to .bmp format by doing the following steps
• Open the Selected Image With Paint and Save image in BMP format
Step 4: The keyhole-final-1.bmp was selected and dragged onto the main window of the S-Tools program.
• **The image is opened.**
Step 5: Select a file to hide within the base file. If it's not there, create a txt.
• **Save the file**
Step 6: The code.txt was selected and dragged onto the main window of the S-Tools program.
• After Dragged code.txt file onto main window of the S-Tools A dialogue box will appear asking the user to enter and verify a passphrase. Additionally, the user will have to select an encryption algorithm.
• Enter a **passphrase** in both the **passphrase** and **verify passphrase text boxes**. And **Click on OK**
Step 7: The S-Tools main window will appear and a new file will be visible. The name of the file will be called **hidden data by default.**
Step 8: Place the cursor on top of the hidden data image and select the right mouse button. The user will have four options available to them
• Save
• Save As
• Properties
• Reveal
Step 9: Selecting the 'Properties' button while the cursor is over any image will display the following
• Width and Height of the image
• Bits per pixel
• Memory Usage (file size in bytes)
• Compression
Step 10: Selecting the **'Reveal' button** will display a passphrase dialogue box. A passphrase must be entered twice in the dialogue box and the correct encryption algorithm must be selected.
• Enter a passphrase twice, select the encryption algorithm, and **select the 'OK'** button.
• A 'Revealed Archive' dialogue box will display which contains the file name and size of the hidden file.
Step 11: Select the Save as

• A 'Save As' dialogue box will appear. Enter a valid file name, select the working directory and select the 'Save' button

Step 12: Locate the files in the working directory.

• Open the files using a multimedia software program and ensure that the files were extracted from the steganography file successfully.