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CSE 303

ASSIGNMENT 04

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CONTENT TABLE

PROBLEM DESCRIPTION

- This assignment includes a solution that automates an application called "Ford.exe" using the AutoHotkey script language. The task is to generate radio codes for vehicles starting from a certain starting serial number to a certain ending serial number and storing this data in a folder by regularly taking cropped screenshots.

METHODOLOGY

- Make the necessary changes in the .ahk extension file, so that when the script is run, the process is completed with a loop that starts the Ford.exe file, enters the serial numbers from the specified start serial number to the finish serial number and obtain the radio codes.

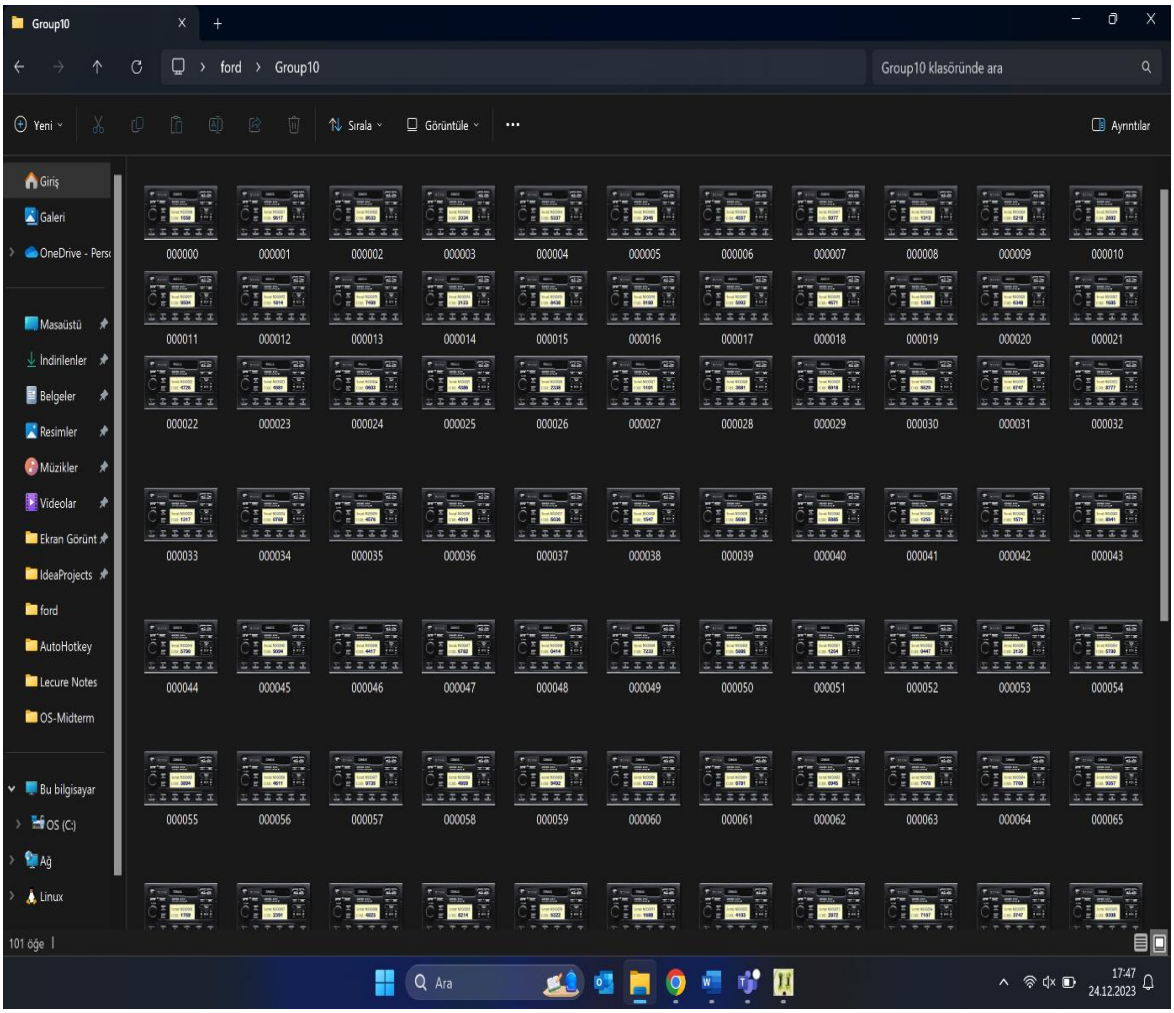
SOLUTION STEPS

- First, we installed the necessary applications to perform the automation process and take screenshots. Then we read the documentation published on the official website of AutoHotKey on how to run an application, click on the desired location on the screen and how to use Windows Spy.

- Using this information, we defined the starting serial number and finish serial number in variables and started the ford.exe application. We sent the serial numbers in a loop from start to finish with the SendInput command. We obtained the radio code by pressing the "5" key.We ran screenshot-cmd with options (name and cropping parameters) and took a screenshot via AutoHotKey.

- When we increased the starterialnumber variable, which we defined as Integer, at the end of the loop, the number was no longer 6 digits. To solve this problem, we used AutoHotKey's Format function.

- When we completed the script, we tested it on different devices and found that the Click positions we entered could be incorrect on computers with different screen formats. We realized that the problem was caused by our hardcoded assignment and rearranged the ahk file using AutoHotKey's WinGetPos function and Ford.exe's width and height values. When we used relative location, we solved the problem.



Screenshots of Generated Radio Commands