Ex_3_script.sh

```bash
 1  #!/bin/bash
 2
 3  matrix=("Canny" "HoughLine" "HoughCircle")
 4  resolutions=("640x480" "800x600" "1600x1200")
 5  sched_policies=("SCHED_FIFO" "SCHED_OTHER")
 6
 7  rm example.csv
 8  touch example.csv
 9
10  # Iterate through each combination of parameters
11  for mat in "${matrix[@]}"; do
12      for resolution in "${resolutions[@]}"; do
13          for policy in "${sched_policies[@]}"; do
14              echo "Running: ./program --transformation=${mat} --resolution=${resolution} --sched_policy=${policy}"
15              sudo ./program --transformation=$mat --resolution=$resolution --sched_policy=$policy
16              return_value="$?"
17              # Check if the program exited with an error
18              if [ "$return_value" -ne 0 ]; then
19                  echo "Error running program with parameters --transformation=${mat} --resolution=${resolution} --sched_policy=${policy}, exiting."
20                  exit -1
21              fi
22          done
23      done
24  done
25
```