Hanoi University of Science and TechnologySchool of Information and Communication Technology

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**PROJECT REPORT**

**Computer Vision**

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**Group 5**

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**Hanoi,2022**

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# **I. Project 1 :Object counting**

## **1.1 Problem**

## **1.2 Data**

## **1.3 Implementation**

Step 1. Convert to grayscale

Step 2. Remove noise in frequency domain

Step 3. Remove noise

Median Blur , GaussianBlur

Step 4. Contrast Enhancement

Image low contrast use equal histogram

Step 5. Thresh holding image

Image threshold using adaptive

Step 6. Find contour

Using Canny algo

## **1.4 Conclusion**

# **II. Project 2 : Object detection using bag of words**

## **2.1 Problem**

## **2.2 Data**

## **2.3 Implementation**

## **2.4 Conclusion**