# Introduction

This assignment is based on GPGPU(General Purpose GPU). We explore the parallelism and computational capabilities of the GPU and port Coinporaal Mining application which involves collecting Coinporaal coins. They are obtained as result of solving hashes. In this assignment, we will try to optimize the hashing algorithm on GPUs. This enables us to join the mining competition as an extracurricular to mine as many coins as possible.

# CUDA – an Introduction

>>> Copy and paraphrase from Karthik’s …<<<

GPU/CUDA/Porting/ streaming multiprocessor …

# Mining Application

## Source

…>>> 2 lines about it <<<…

## Results

# Porting of Code to GPU

## Implementation 1:

>>> explain <<<

## Results

>>> Profiler output , Screenshot of output from server CLI <<<

## Implementation 2:

>>> explain <<<

## Results

>>> Profiler output , Screenshot of output from server CLI <<<

## Implementation 3 (if any):

>>> explain <<<

## Results

>>> Profiler output , Screenshot of output from server CLI <<<

# Conclusion:

>>> Talk about best implementation / design and reasons. <<<

# Division of Work ( if it is asked in the assignment page):