

1 Introduction

This is a log file for the project. Here I'll explain my thought process and the things I've done during each week.

2 Week 1

2.1 Setting up the environment

Installed Coq. Use the command `sudo apt install coq`

Coq is a proof assistant. As a hello world program we can write a proof for the theorem . For all theorems if there exists a proof for it then there exists a proof for it. This can be written in coq as

```
Theorem my_first_proof : (forall A: Prop, A->A).  
Proof.  
  intros A.  
  intros proof_of_A.  
  exact proof_of_A.  
Qed.
```