CA Assignment 1 - IAS Computer

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1 About the Project

- This is an implementation of the IAS Computer
- Programming Language Used: Python 3.6.9
- It emulates the Fetch, Decode and Execute cycle for a variety of instructions (For positive and negative numbers):
 - Load
 - Store
 - Jump (Conditional and Unconditional)
 - Add
 - Subtract
 - Left and Right Shifts
 - Halt and Void

2 Project Format

- This project has 10 files:
 - 2 IAS Computer files
 - 2 ordinary high level python files
 - This file (in .pdf and .tex)
 - 4 pictures of sample input output

3 Running the Programs

3.1 For the first program

- python3 ias1.py
- You will be asked to input two numbers, a and b.

3.2 For the second program

- python3 ias2.py
- You will be asked to input four numbers, a, b, c and d.