VirtualMachine() + self._memory = ∏ + self. accumulator = "0000" + self. file = string +self. output = string +self. input = Π def get memory(): returns self. memory def get accumulator(): returns self. accumulator def get_output(): returns self. output def set inputs(): Adds inputs to self. input def sign(): returns signed 4 bit number as string ("+0001") def operator(self, val): returns first two digits of val def operand(self, val): returns last two digits of val def run(): none (Iterates through memory and performs operations) def read(self, count, address): none def write(self, count, address): none def resize_memory(self): none def load(self, i): none def store(self, i): none def add(self, curr): none def subtract(self, curr): none def divide(self, curr): none def multiply(self, curr): none def branchzero(self, address): none def str (): Prints memory and accumulator

The virtual machine class is the powerhouse of this program. It stores and processes the code from memory.