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CSE 3342 HW 12

```
@parser::members {
   Map<String, Integer> variable map = new HashMap<String, Integer>();
   void assign value(String variable, int value) {
        if(variable_map.containsKey(variable)) {
            variable map.put(variable, value);
           System.out.println(value);
        1
        else { System.out.println(variable + "is not declared"); }
   }
   void add(String variable, int value) {
        if(variable_map.containsKey(variable)){
            variable_map.put(variable, variable map.get(variable) + value);
            System.out.println(variable_map.get(variable));
        }
        else { System.out.println(variable + "is not declared"); }
   }
   void subtract(String variable, int value) {
        if(variable_map.containsKey(variable)) {
            variable map.put(variable, variable map.get(variable) - value);
            System.out.println(variable map.get(variable));
        else { System.out.println(variable + "is not declared"); }
   }
   void assign_variable(String variable) {
        if(variable map.containsKey(variable)){
            System.out.println(variable + "is already declared");
        }
        else { variable_map.put(variable, 0); }
    }
   void print variable(String variable) {
        if(variable_map.containsKey(variable)) {
            System.out.println(variable_map.get(variable));
        }
        else { System.out.println(variable + "is not declared"); }
    }
   void print_all_variable() {
        for (Map.Entry<String, Integer> entry : variable_map.entrySet()) {
            System.out.println(entry.getKey() + " is " + entry.getValue());
        }
```

```
REPL IS READY
>>> var x
>>> var y
>>> var z
>>> z = 1
\rangle\rangle\rangle y = 2
\rangle\rangle\rangle x = 3
3
>>>var x
x is already declared
>>>f += 1
f is not declared
\rangle\rangle\ranglex += 2
>>>print y
>>>print *
x is 5
y is 2
z is 1
>>>
```