CIS*4650 (Winter 2016) --- Marking Scheme for Checkpoint Two

Group	Questions	Comments
	Documentation (20)	
	Symbol Tables: (40) 1. Hash tables 2. Simple vars (int and void) 3. Array variables 4. Functions/Blocks -entry and exit 5. Errors: undefined/redefine	
	Type-Checking: (40) 1. array range must be int 2. two sides of an assignment 3. two sides of an operation 4. func dec. vs. return exp 5. test condition must be int	

Symbol Ttable: 1. Hash table 2. Simple variable 3. Array variable 4. Functions/Blocks - entry/exit 5. Error: undefined var	1. Show key-value pairs in different scopes 2. int x; void y; 3. int bbb[10]; 4. use the gcd example and show the symbol tables at entry/exit. 5. use z in a function without declaring it

Type-Checking
1. array range must be int
2. match two sides of an assignment
3. match two operands
4. function declaration and return exp
5. test condition must be int
 	
5. void main(void) {
int x; void y;
if(x) output(x);
if(y) output(y);
}
	1. void main(void) {
	int a[2]; int x; void y;
	a[x] = 1;
	a[y] = 2;
	}
	2. void main(void) {
	int x; void y;
	y = x;
	}
	3. int fun1(int fff) {
	int x; int y; void z;
	x = x * 2 + 1;
	y = x + z;
	}
	4. void fun2(void) {
	int x;
	x = 2;
	return x;
	}