RUNNING TEST CASE FILE "test1.txt"

Syntax Analysis Successful.

Identifier	Type	Memory Address
	int	5000
max	int	5001
sum	int	5002
Address	OpCode	Operand
1	PUSHI	0
2	POPM	5002
3	PUSHI	1
4	POPM	5000
5	STDIN	
6	POPM	5001
7	LABEL	
	PUSHM	5000
9	PUSHM	5001
10	LES	
11	JUMPZ	21
12		5002
13	PUSHM	5000
14	ADD	
15	POPM	5002
16	PUSHM	5000
17	PUSHI	1
18	ADD	
19	POPM	5000
20	JUMP	7
21		5002
22	PUSHM	5001
23	ADD	
24	STDOUT	

3AC Code Generated Successfully!

RUNNING TEST CASE FILE "test2.txt"

Syntax Analysis Successful.

Identifier	Туре	Memory Address
base	int	5000
power	int	5001
	int	5002
total	int	5003
Address	OpCode	Operand
1		0
2	POPM	5002
3	PUSHI	0
4	POPM	5003
5	STDIN	
6	POPM	5000
7	STDIN	
8	POPM	5001
9	LABEL	
10	PUSHM	5002
11	PUSHM	5001
12	LES	
13	JUMPZ	23
14	PUSHM	5003
15	PUSHM	5000
16	MUL	
17	POPM	5003
18	PUSHM	5002
19	PUSHI	1
20	ADD	
21	POPM	5002
22	JUMP	9
23	PUSHM	5003
24	STDOUT	

3AC Code Generated Successfully!

RUNNING TEST CASE FILE "test3.txt"

Syntax Analysis Successful.

Identifier	Туре	Memory Address
interestTotal Principle years periods rate totalPower count	int int int int int int int int	5000 5001 5002 5003 5004 5005 5006

Address	OpCode	Operand
1	STDIN	
2	POPM	5001
3	STDIN	
4	POPM	5002
5	STDIN	
6	POPM	5003
7	STDIN	
8	POPM	5004
9	PUSHI	0
10	POPM	5006
11	PUSHI	0
12	POPM	5000
13	PUSHM	5002
14	PUSHM	5003
15	MUL	
16	POPM	5005
17	PUSHM	5006
18	PUSHM	5005
19	LES	
20	JUMPZ	31
21	PUSHM	5000
22	PUSHM	5001
23	MUL	
24	PUSHI	1
25	PUSHM	5004
26	PUSHM	5003
27	DIV	
28	ADD	
29	MUL	
30	POPM	5000
31	PUSHM	5000
32	STDOUT	

3AC Code Generated Successfully!

RUNNING TEST CASE FILE "test4.txt"

Syntax Analysis Successful.

Identifier	Туре	Memory Address
realVarA	real	5000
	real	5001
	real	5002
	int	5003
YCoord	int	5004
ZCoord	int	5005
aCoord	int	5006
bCoord	int	5007
cCoord	int	5008
operation	int	5009
	boolean	5010
Address	OpCode	Operand
1	PUSHI	10123
2	POPM	5000
3	PUSHI	610
4	POPM	5001
5	PUSHI	3
6	POPM	5002
7	PUSHI	20
8	POPM	5003
9	PUSHI	912
10	POPM	5004
11	PUSHI	120
12	POPM	5005
13	PUSHI	1
14	POPM	5006
15	PUSHI	0
16	POPM	5007
17	PUSHM	0
18	POPM	5008
19	PUSHM	5008
20	POPM	0
21	PUSHI	420
22	POPM	5010
23	PUSHM	5003
24	POPM	5000
25	STDIN	3000
26	POPM	5009
27	LABEL	5009
28	PUSHM	5009
29	PUSHI	0
30	NEQ	U
31		111
32	JUMPZ	5009
32	PUSHM	1
34	PUSHI	1
34	EQU	4.0
	JUMPZ	48
36	PUSHM	5000
37	PUSHM	5003
38	ADD	

3

21 ERRORS FOUND

PUSHM

PUSHI

SUB

POPM

JUMP

PUSHM

STDOUT

PUSHM

STDOUT

PUSHM

STDOUT

5009

5009 27

5006

5007

5008

106

107

108

109

110

111

112

113

114

115

116

[ERR] (Line 7) DUPLICATE SYMBOL "XCoord" (Line 13) TYPE MISMATCH. Expected "real" [ERR] (Line 14) TYPE MISMATCH. Expected "real" [ERR] [ERR] (Line 15) TYPE MISMATCH. Expected "real" [ERR] (Line 19) TYPE MISMATCH. Expected [ERR] (Line 20) TYPE MISMATCH. Expected "int" (Line 21) UNDECLARED VARIABLE "unknown" (Line 22) UNDECLARED VARIABLE "unknown" [ERR] [ERR] (Line 23) TYPE MISMATCH. Expected "boolean" (Line 25) TYPE MISMATCH. Expected "real" [ERR] [ERR] [ERR] (Line 32) TYPE MISMATCH. Expected "int" (Line 33) TYPE MISMATCH. Expected "int" [ERR] (Line 34) TYPE MISMATCH. Expected "int" [ERR] (Line 36) TYPE MISMATCH. Expected "int" [ERR] (Line 38) TYPE MISMATCH. Expected "int"