Task 5 – Google Sheet Style Trace Table

Trace Table (Single Block)

Step	Statement	s1.name	s2.name	
1	`s1 = new Student();`			
2	`s2 = new Student();`			
3	`s3 = null;`			
4	`s1.name = "Student One";`	Student One		
5	`s1.cgpa = 2.3;`			
6	`s3 = s1;`			
7	`s2.name = "Student Two";`		Student Two	
8	`s2.cgpa = s3.cgpa + 1;`			
9	`s3.name = "New Student";`	~~Student One~~		N
10	`print(s1.name);`	New Student		
11	`print(s2.name);`		Student Two	
12	`print(s3.name);`			N
13	`print(s1.cgpa);`			
14	`print(s2.cgpa);`			
15	`print(s3.cgpa);`			
16	`s3 = s2;`			
17	`s1.name = "old student";`	~~New Student~~ → old student		
18	`s2.name = "older student";`		~~Student Two~~ → older student	o
19	`s3.name = "oldest student";`		~~older student~~ → oldest student	o
20	`s2.cgpa = s1.cgpa - s3.cgpa + 4.5;`			
21	`print(s1.name);`	old student		
22	`print(s2.name);`		oldest student	
23	`print(s3.name);`			o
24	`print(s1.cgpa);`			
25	`print(s2.cgpa);`			
26	`print(s3.cgpa);`			

Print Output

- New Student
- Student Two
- New Student

- 2.3
- 3.3
- 2.3
- old student
- oldest student
- oldest student
- 2.3
- 3.5
- 3.5