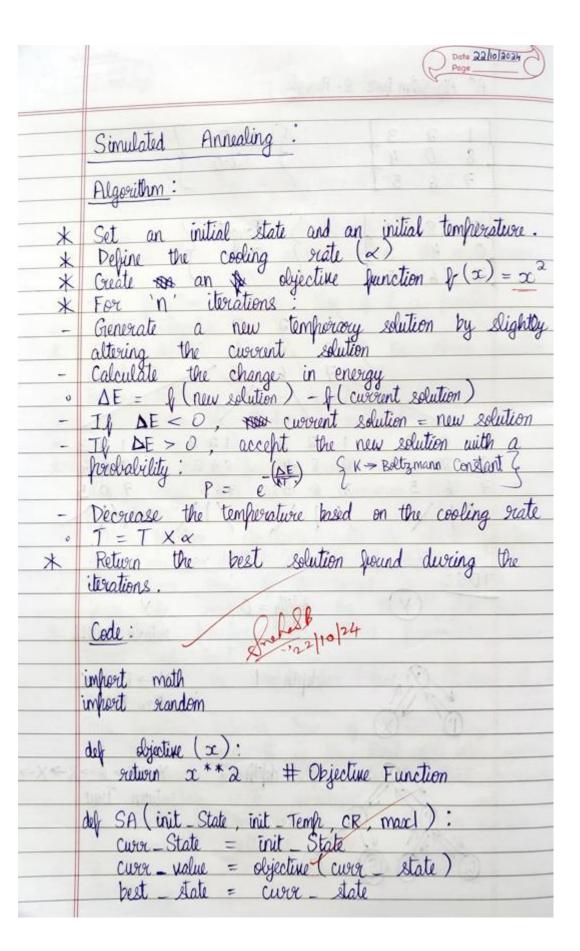
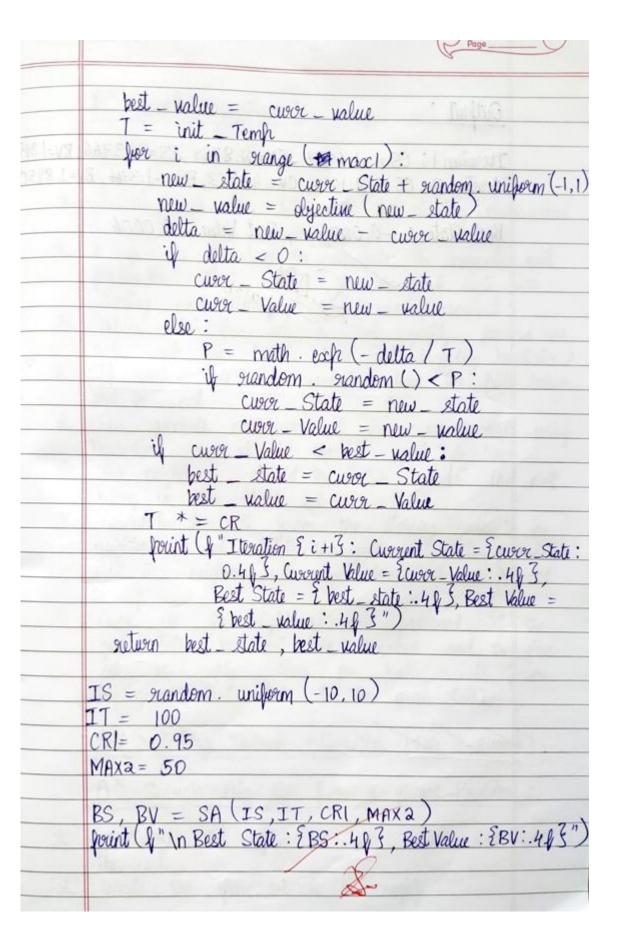
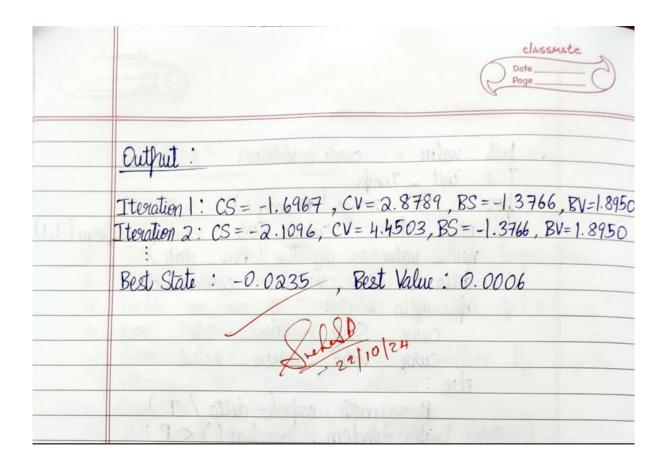
| LAB-5: Simulated Annealing Algorithm | |
|--------------------------------------|--|
| Observation book: | |
| Observation book. | |
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Output:

```
Enter the initial state (starting point): 15
Enter the initial temperature: 10
Enter the cooling rate (between 0 and 1): 0.5
Enter the number of iterations: 4
Iteration 1: Current State = 15.8992, Current Energy = 252.7846, Temperature = 5.0000
Iteration 2: Current State = 15.4894, Current Energy = 239.9222, Temperature = 2.5000
Iteration 3: Current State = 15.4894, Current Energy = 239.9222, Temperature = 1.2500
Iteration 4: Current State = 14.4963, Current Energy = 210.1414, Temperature = 0.6250
Best State: 14.4963, Best Energy: 210.1414
Nikhilesh 1BM22CS181
```