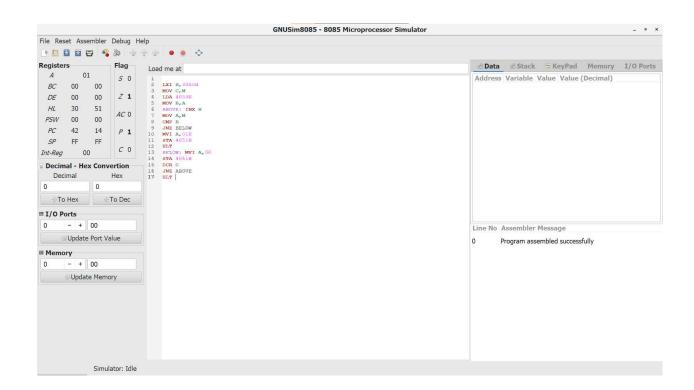
NAME: MD WASIF || ENROLL: 19UICS002 SUB: CAO LAB || ASSIGNMENT: 6

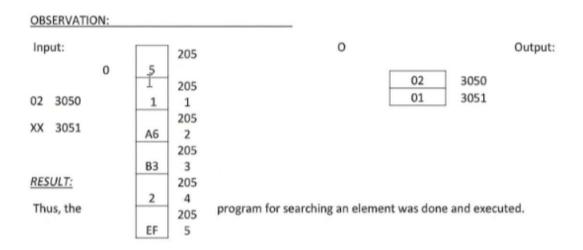
1. Write a program to search an 8-bit number in an array.

Aim: To search a number in array of elements

Algorithm:

- 1) Load H-L pair to the memory address holding the size of the array
- 2) Move it to a register that will act as a counter.
- 3) Load the element to be searched to another register.
- 4) Increment H-L par to subsequent locations containing the array elements and move it to A.
- 5) Compare each of these elements with the element to be searched ,using CMP.
- 6) If the element is the same it will generate a zero flag else not. So, we check for zero flags.
- 7) If no zero flag is generated, we store value 01 in a desired location, which indicates that our element is found and we terminate the program.





Conclusion:-

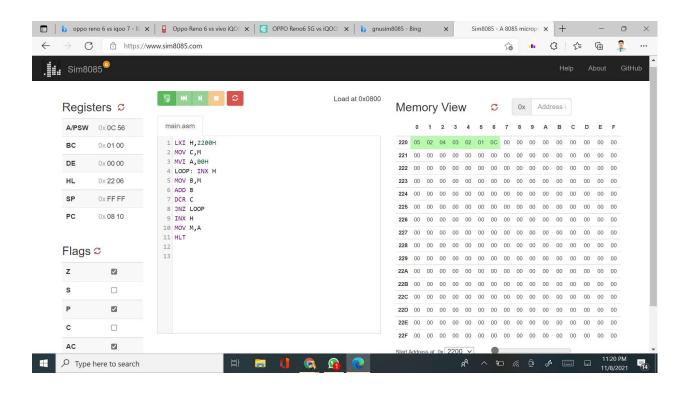
Thus, the program for searching an element was done and executed successfully.

2. Write a program to find the sum of series in an array using 8085.

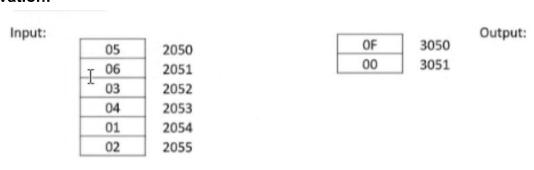
Aim: program to find sum of series in an array.

Algorithm:-

- 1. Load H-L pair with address.
- 2. Move the counter from memory to register.
- 3. Initialize accumulator with 00H.
- 4. Add the first element with the content of the accumulator.
- 5. Increment H-L pair.
- 6. If carry occurs, increment C, else simply decrement B.
- 7. Repeat steps 5 to 7 until B becomes zero.
- 8. Move the result to the desired location.
- 9. Terminate the program.



Observation:-



Conclusion:-

Thus ,the program to find the sum of elements in an array was executed.