Experiment 3

(a) First number is greater than second number

ALGORITHM

- Get address of 1st number in H-L pair.
- 1st number in accumulator.
- Content of H-L pair increases from 2501 to 2502 H.
- 1st number - 2nd number
- Content of H-L pair becomes 2503 H.
- Stored result in 2503 H.
- Halt

Figure 1: parta

(b) First number is less than second number

ALGORITHM

- Clear reg C to Store Sign bit
- Get the first no. from memory location.
- Get the second no from memory location.
- Subtract second no from first no.
- If carry equal one,
- then increment reg C,
- Get 2'S complement of result and store the result .
- Else
- Store the result.
- Halt.

Figure 2: partb