POSITIVE OR NEGATIVE

AIM

To develop an assembly language program to check whether the given number is positive or negative.

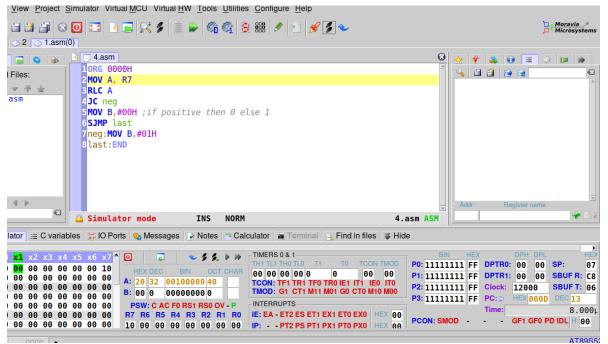
ALGORITHM

```
Algorithm 1 Check whether given number is positive or negative
1: Start
2: Read the input (n).
3: Let n i be the MSB of n.
4: if n i = 1 then
5: print "The number is negative"
6: else
7: else
8: end if
9: Stop
```

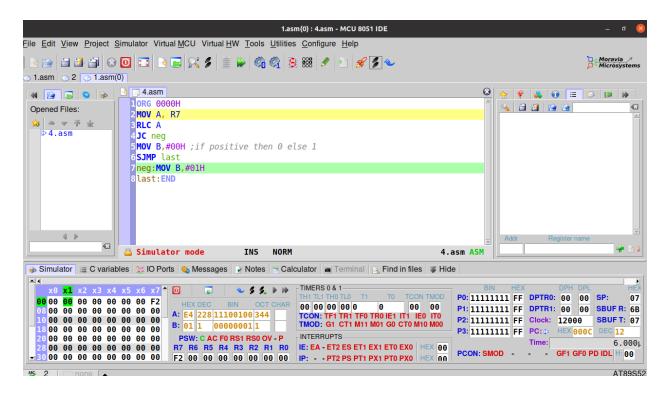
SOURCE CODE

ORG 0000H MOV A, R7 RLC A JC neg MOV B,#00H ;if positive then 0 else 1 SJMP last neg:MOV B,#01H last:END

OUTPUT:



Output with R7 = 10H



Output with R7 = F2H

RESULT:

Assembly language program to check whether a given number is positive or negative has been developed and verified using MCU-8051-IDE.

SACHIN G RO:54