HEXADECIMAL TO DECIMAL

AIM

To develop an assembly language program to convert a number in Hexadecimal to it's decimal equivalent.

ALGORITHM

Algorithm 1 Hex to decimal conversion

```
1: Start
```

2: Read the input in hexadecimal (hex).

3: m = hex/A

4: d ec = hex + 6 * m

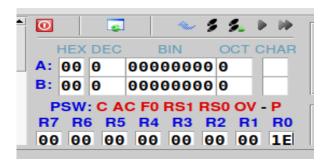
5: Print the result in decimal (d ec).

6: Stop

SOURCE CODE

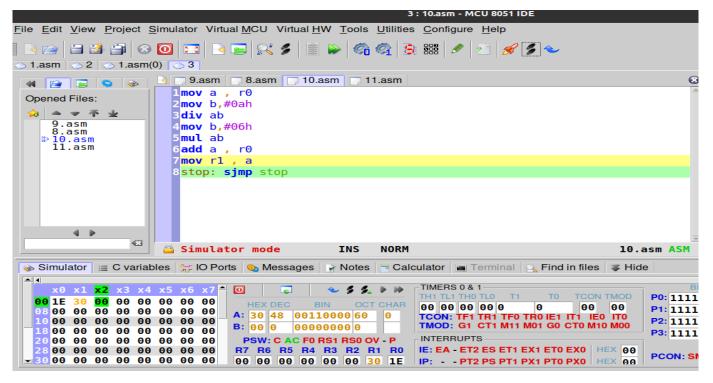
```
mov a , r0
mov b,#0ah
div ab
mov b,#06h
mul ab
add a , r0
mov r1 , a
stop: sjmp stop
```

INPUT:



Input in R0

OUTPUT:



Output in R1

RESULT:

Assembly language program for converting a number in hexadecimal to it's equivalent decimal has been developed and verified using MCU-8051-IDE.

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