

DECIMAL TO HEXADECIMAL

AIM

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

ALGORITHM

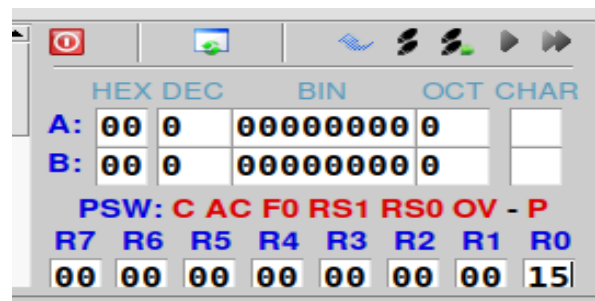
Algorithm 1 Decimal to hex conversion

- 1: Start
- 2: Read the input in decimal (d ec).
- 3: $m = d\ ec / 16$
- 4: $hex = d\ ec - 6 * m$
- 5: Print the result in hexadecimal (hex).
- 6: Stop

SOURCE CODE

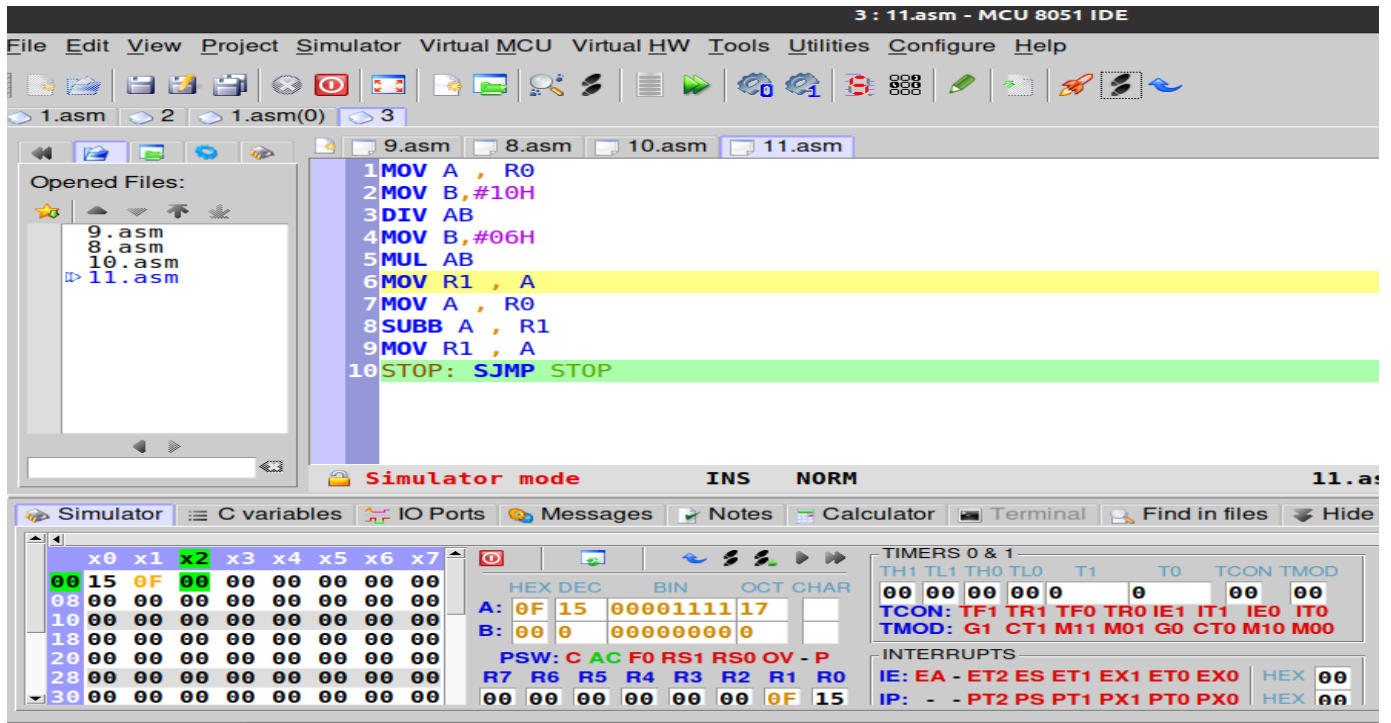
```
MOV A , R0
MOV B, #10H
DIV AB
MOV B, #06H
MUL AB
MOV R1 , A
MOV A , R0
SUBB A , R1
MOV R1 , A
STOP: SJMP STOP
```

INPUT:



Input in R0

OUTPUT:



Output in R1

RESULT:

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

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