DAYANANDA SAGAR COLLEGE OF ENGINEERING
(An Autonomous Institute affiliated to VTU, Belagavi, Approved by AICTE & ISO 9001:2008 Certified)
Accredited by National Assessment & Accreditation Council (NAAC) with 'A' grade,
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru-560078.

MICROPROCESSOR AND MICROCONTROLLERS

(19EE4DCMCR)

AAT/Assignment Project Report

DISPLAY HEX UP COUNT EVEN NUMBERS ON SEVEN SEGMENT DISPLAY

*A Project report submitted in partial fulfillment of the requirements for **AAT** of IV Semester of*
Bachelor of Engineering in Electrical & Electronics Engineering
of Visvesvaraya Technological University, Belgaum

Submitted by

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COURSE OUTCOMES

1. Apply the knowledge to identify the various features of controller and processor.
2. Analyze problems and illustrate various solutions using controller and processor.
3. Evaluate various requirements for solving a problem and determine suitable solution using controller and processor.
4. Create an embedded system to solve practical problem.

QUESTION: DISPLAY HEX UP COUNT EVEN NUMBERS ON SEVEN SEGMENT DISPLAY

PROGRAM:

```
START:MOV R1,#0
MOV DPTR,#400H
BACK:CLR A
MOVC A,@A+DPTR
MOV P2,A
ACALL DELAY
INC DPTR
DJNZ R1,BACK
SJMP START
ORG 400H
DB 3FH,5BH,66H,7DH,7FH,77H,39H,79H
DELAY:MOV R2,#08H
UP2:MOV R4,#0FFH
UP1:MOV R3,#0FFH
HERE:DJNZ R3,HERE
```

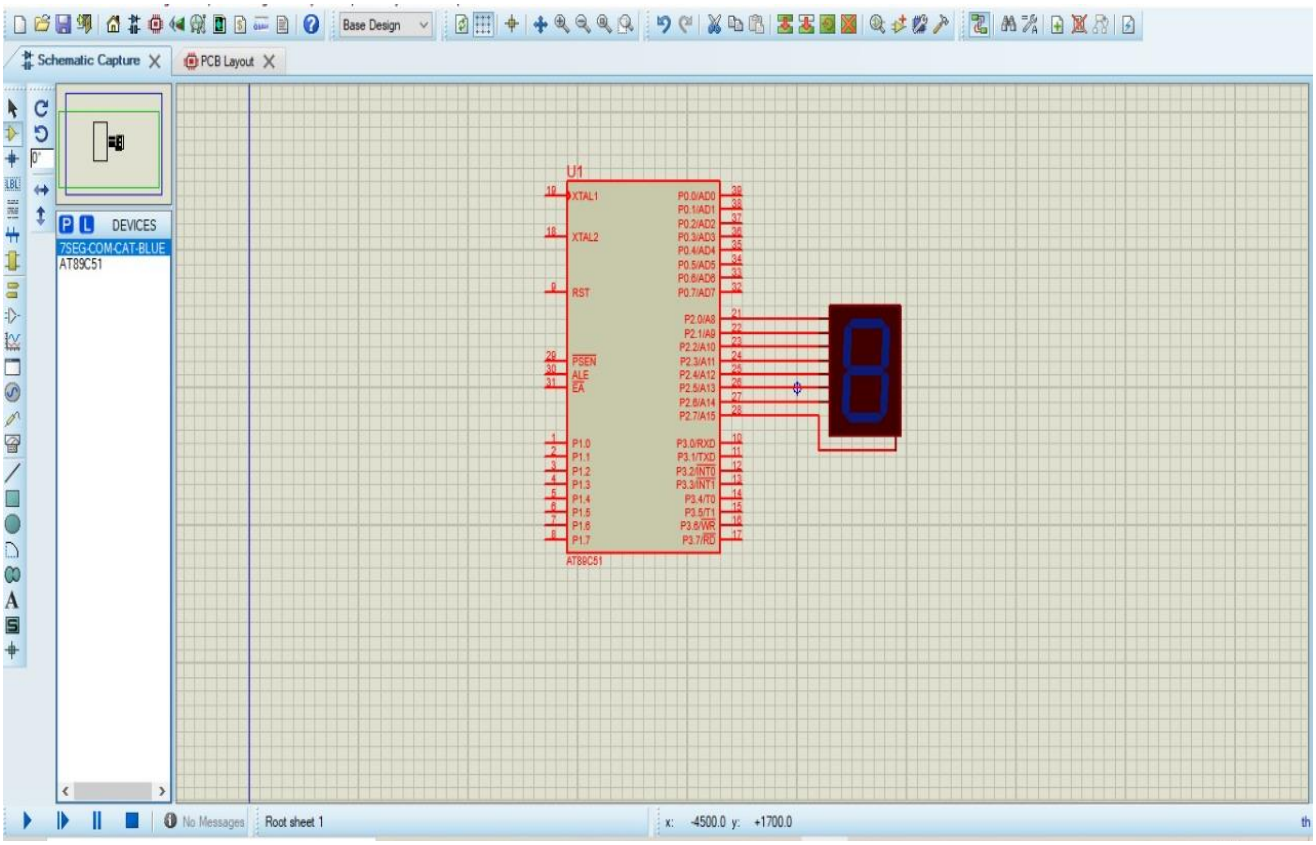
DJNZ R4,UP1

DJNZ R2,UP2

RET

END

SNAPSHOT OF BEFORE EXECUTION:



SNAPSHOT OF AFTER EXECUTION: