



**University of
Batangas**
LIPA CITY

COLLEGE OF ENGINEERING
& ARCHITECTURE

**UNIVERSITY OF BATANGAS – LIPA CAMPUS
COLLEGE OF ENGINEERING AND ARCHITECTURE
COMPUTER ENGINEERING**

BCD To Seven Segment Display Decoder

Experiment #6

Hardware Description Language

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PROFESSOR



Output Screenshot:

```
Command Prompt
Microsoft Windows [Version 10.0.19045.2364]
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C:\Users\pamvm>cd..

C:\Users>cd..

C:\>dir
Volume in drive C has no label.
Volume Serial Number is D865-B202

Directory of C:\

01/07/2022  03:45 pm  <DIR>          $WINDOWS~BT
25/09/2022  12:26 pm                30 AVScanner.ini
20/01/2022  01:08 pm  <DIR>          Brother
03/07/2022  06:13 pm  <DIR>          ESD
19/01/2022  11:27 pm  <DIR>          Intel
18/12/2022  06:27 pm  <DIR>          iverilog
07/12/2019  05:14 pm  <DIR>          PerfLogs
07/11/2022  03:29 pm  <DIR>          Program Files
18/12/2022  11:13 am  <DIR>          Program Files (x86)
16/05/2022  11:05 am  <DIR>          Users
15/12/2022  12:50 pm  <DIR>          Windows
               1 File(s)              30 bytes
            10 Dir(s) 134,264,500,224 bytes free

C:\>

Command Prompt

C:\>cd iverilog

C:\iverilog>dir
Volume in drive C has no label.
Volume Serial Number is D865-B202

Directory of C:\iverilog

18/12/2022  06:27 pm  <DIR>          .
18/12/2022  06:27 pm  <DIR>          ..
19/09/2022  08:02 am  <DIR>          bin
18/12/2022  06:07 pm  <DIR>          exercises
09/10/2022  09:43 pm  <DIR>          exp
19/12/2022  12:31 am  <DIR>          Experiments
19/09/2022  08:02 am  <DIR>          gtkwave
19/09/2022  08:02 am                52 Icarus Verilog.url
25/04/2004  04:52 pm            18,902 icarus.ico
19/09/2022  08:02 am  <DIR>          include
19/09/2022  08:02 am  <DIR>          lib
09/10/2022  08:51 pm  <DIR>          samples
19/09/2022  08:02 am  <DIR>          share
19/09/2022  08:02 am            184,689 unins000.dat
19/09/2022  08:01 am            3,153,063 unins000.exe
               4 File(s)            3,356,706 bytes
            11 Dir(s) 134,264,057,856 bytes free

C:\iverilog>cd Experiments

C:\iverilog\Experiments>dir
```



Command Prompt

```
C:\iverilog>cd Experiments

C:\iverilog\Experiments>dir
Volume in drive C has no label.
Volume Serial Number is D865-B202

Directory of C:\iverilog\Experiments

19/12/2022  12:31 am    <DIR>          .
19/12/2022  12:31 am    <DIR>          ..
19/12/2022  12:29 am           1,825 7Segment.v
19/12/2022  12:29 am           1,385 7Segment.vcd
18/12/2022  06:28 pm              948 Experiment1.v
18/12/2022  08:37 pm           3,233 Experiment2.v
18/12/2022  09:25 pm           3,996 Experiment3.v
18/12/2022  11:08 pm           1,872 Experiment4.v
19/12/2022  12:18 am           2,577 Experiment5.v
18/12/2022  07:04 pm              848 LabExp1.vcd
18/12/2022  08:37 pm           1,812 LabExp2.vcd
18/12/2022  09:25 pm           4,510 LabExp3.vcd
18/12/2022  11:21 pm           1,217 LabExp4.vcd
19/12/2022  12:18 am           2,206 LabExp5.vcd
19/12/2022  12:29 am           9,409 test
                13 File(s)          35,838 bytes
                2 Dir(s)  134,263,808,000 bytes free

C:\iverilog\Experiments>iverilog -o test 7Segment.v

C:\iverilog\Experiments>vvp test
VCD info: dumpfile 7Segment.vcd opened for output.
```

Command Prompt

```
19/12/2022  12:18 am           2,206 LabExp5.vcd
19/12/2022  12:29 am           9,409 test
                13 File(s)          35,838 bytes
                2 Dir(s)  134,263,808,000 bytes free

C:\iverilog\Experiments>iverilog -o test 7Segment.v

C:\iverilog\Experiments>vvp test
VCD info: dumpfile 7Segment.vcd opened for output.

7 Segments Display
A=1, B=1, C=1, D=1, E=1, F=1, G=0,
A=0, B=1, C=1, D=0, E=0, F=0, G=0,
A=1, B=1, C=0, D=1, E=1, F=0, G=1,
A=1, B=1, C=1, D=1, E=0, F=0, G=1,
A=0, B=1, C=1, D=0, E=0, F=1, G=1,
A=1, B=0, C=1, D=1, E=0, F=1, G=1,
A=1, B=0, C=1, D=1, E=1, F=1, G=1,
A=1, B=1, C=1, D=0, E=0, F=0, G=0,
A=1, B=1, C=1, D=1, E=1, F=1, G=1,
A=1, B=1, C=1, D=1, E=0, F=1, G=1,
7Segment.v:67: $finish called at 100 (1s)

C:\iverilog\Experiments>
```



GTKwave:

