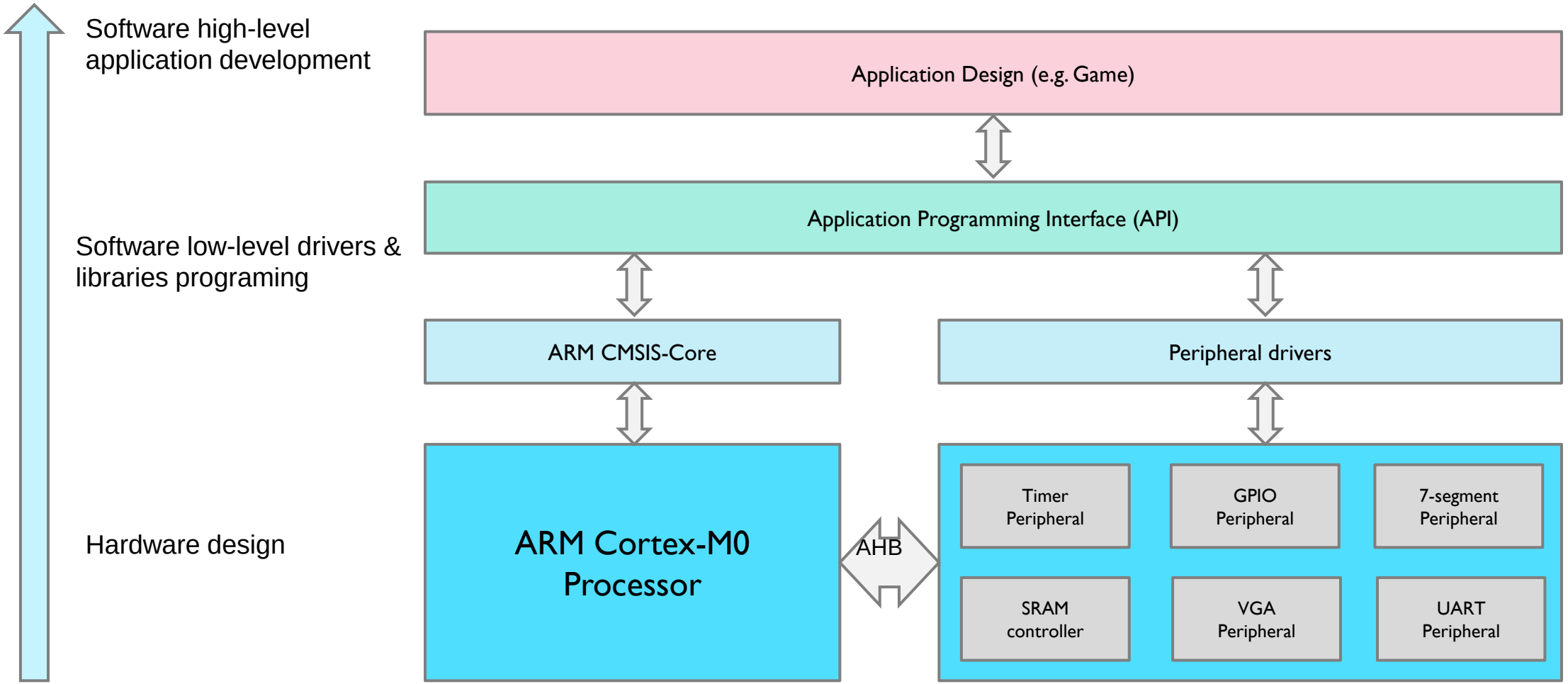
Snake Game on Cortex M0 DS

Design Summary

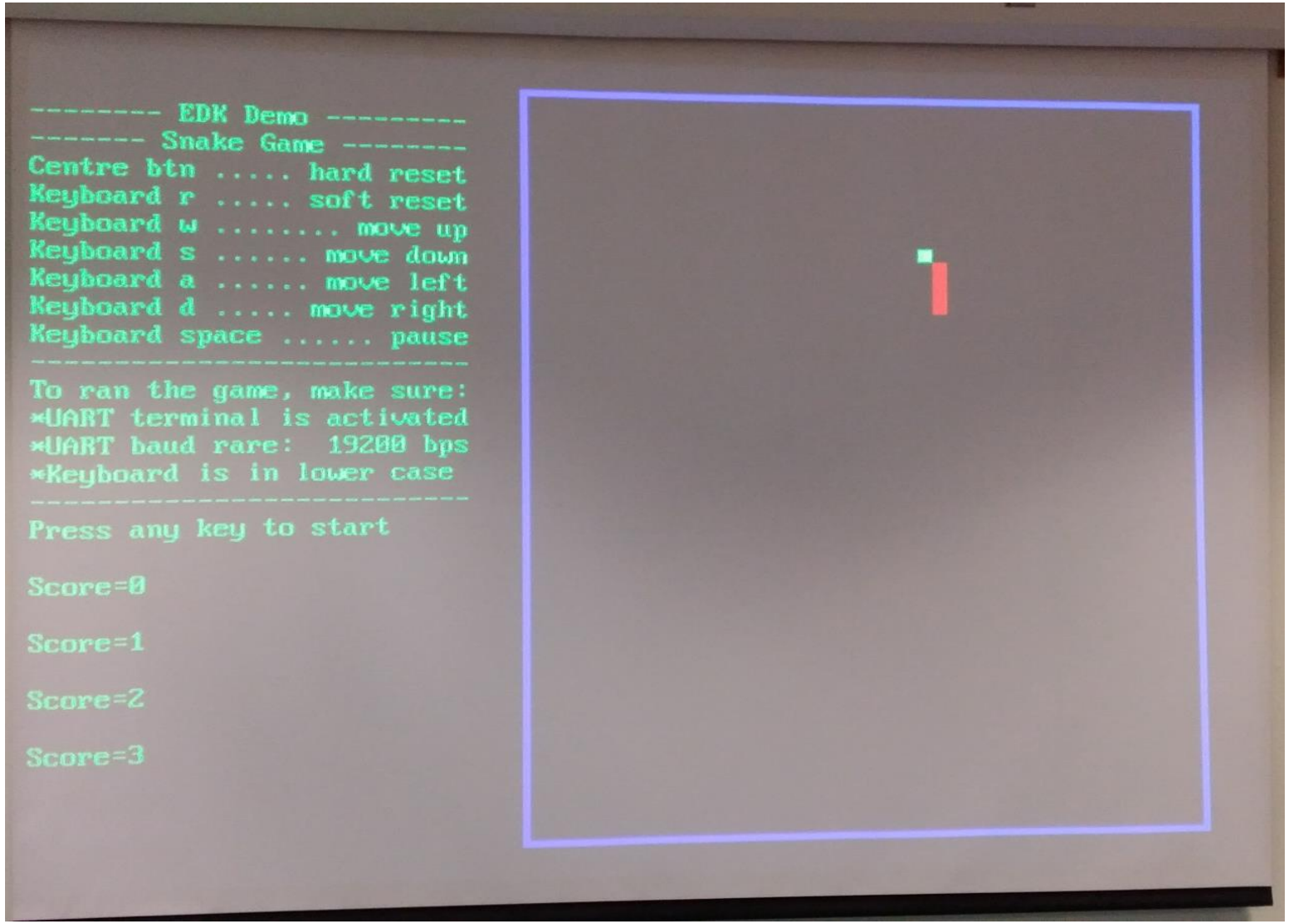


Lab Steps

1. Compile the Software using KEIL MDK ARM and generate code.hex file
2. Follow the steps given in the lab manual to download code.hex onto PSRAM
3. Use Vivado hardware manager to download the .bit file given in lab/FPGA folder
4. Use VGA monitor and HyperTerminal (or any other serial terminal) to play the SNAKE game

ARM

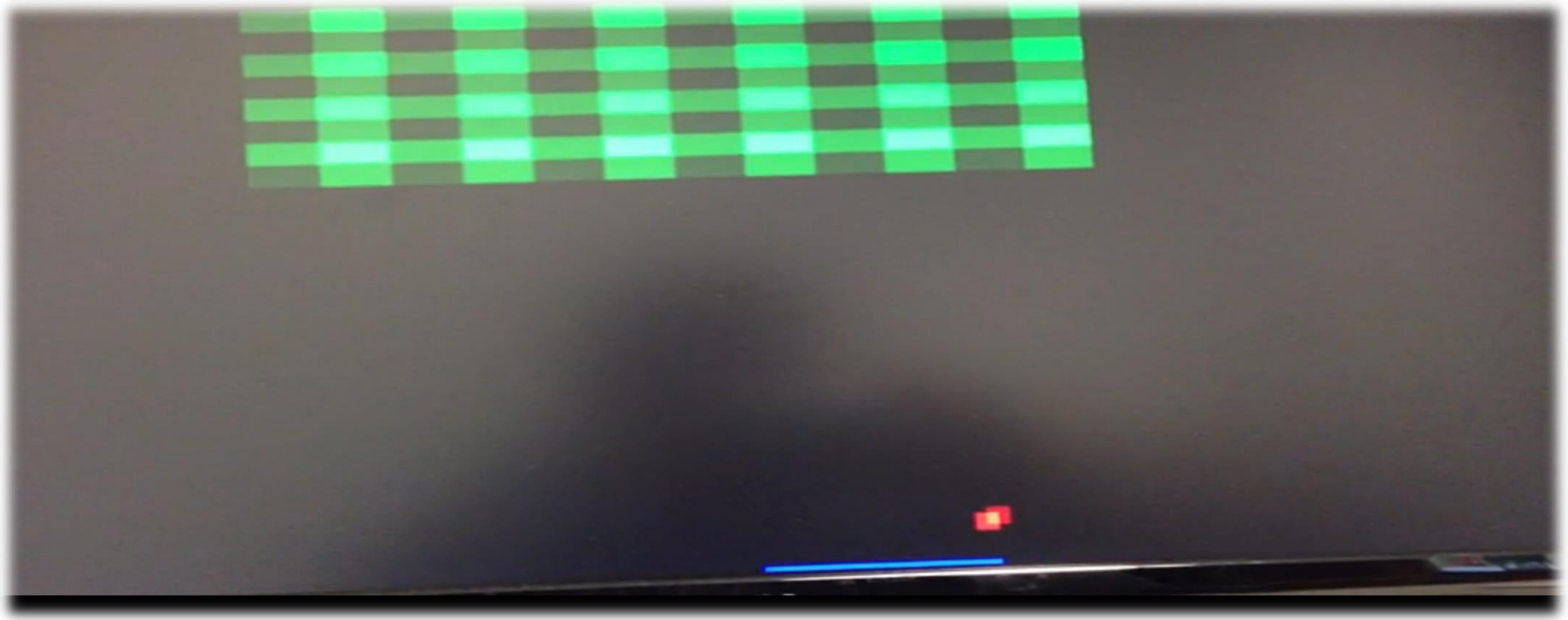
Output


-------- EDK Demo ---------
-------- Snake Game --------
Centre btn ..... hard reset
Keyboard r ..... soft reset
Keyboard w ..... move up
Keyboard s ..... move down
Keyboard a ..... move left
Keyboard d ..... move right
Keyboard space ..... pause
To ran the game, make sure:
*UART terminal is activated
*UART baud rare: 19200 bps
*Keyboard is in lower case
Press any key to start
Score=0
Score=1
Score=2
Score=3

ARM

Many possible students project

1. PACMAN; TETRIS; BREAK; TicTac;



ARM

"Live as if you were to die tomorrow.
Learn as if you were to live forever."

- Mahatma Gandhi

ARM