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Steps followed –

1) Install VM Fusion and Ubuntu

2) Install git - sudo apt-get install git

3) Install make – sudo apt-get install make

4) Install gcc -sudo apt-get install gcc

5) git clone <https://github.com/torvalds/linux.git>

6) Downloaded the Makefile and cmpe281.c file from the sjsu canvas

7) Build the file using make

Text

Description automatically generated

8) After building the file check if there is kernel object file is created.Text

Description automatically generated

9) After sudo insmod ./cmpe283-1.ko and dmesg the configuration of kernel is –

Output of pinbased controls Text

Description automatically generated

10) Then in the cmpe281.c file add the configuration of the pins and build the file

1) Output of Procbased controlsText

Description automatically generated

2) Secondary Procbased controls Text

Description automatically generated

3) Exit controlsGraphical user interface, text

Description automatically generated

4) Entry controlsGraphical user interface, text

Description automatically generated

11) To rebuild the file use commands - sudo rmmod cmpe283-1, sudo insmod ./cmpe283-1.ko, dmesg