

If Something is unclear, I can resubmit it. The answers are all in Putty pf the dot norm, dot product, negative array, sign changed, and reverse array. The code should be a clear indicator of the functions. I have calculated all the values on calculator and they match up.

```
1 #include "array_functions.h"
2 #include "mcc_generated_files/mcc.h"
3
4 /*
5 | | | | | Main application
6 */
7 void main(void)
8 {
9     // Initialize the device
10    SYSTEM_Initialize();
11
12    float A[] = {1.0, 2.2, 3.3, 4.4}, B[] = {0.5, -0.37, 6.25, -3.33}, NewArray[4];
13
14    int i;
15
16
17    printf("\n\nrnorm = %f", norm(A, 4));
18    printf("\n\rdot product of A and B is %f", dot_product(A, B, 4));
19
```

```
Available Resources x Pin Module x DMA Manager x main.c x array_functions.c x array_functions.h x
Source History
19
20     sign_change(A,4);
21     for(i=0;i<4;i++)
22     {
23         printf("\n\r sign flipped of A is %f",A[i]);
24     }
25
26
27     printf("\n\rNew Negative array of A is: ");
28     negative_array(A,NewArray,4);
29     for(i=0;i<4;i++)
30     {
31         printf(" %f",NewArray[i]);
32     }
33
34     printf("\n\rReverse array of A is: ");
35     reverse_array(A,NewArray,4);
36     for(i=0;i<4;i++)
37     {
38         printf(" %f",NewArray[i]);
39     }

```

COM4 - PuTTY

```
sign flipped of A is -1.000000
sign flipped of A is -2.200000
sign flipped of A is -3.300000
sign flipped of A is -4.400000
New Negative array of A is 1.000000New Negative array of A is 2.200000New Negative array of A is 3.300000New Negative array of A is 4.400000
norm = 6.007495
dot product of A and B is 5.659000
sign flipped of A is -1.000000
sign flipped of A is -2.200000
sign flipped of A is -3.300000
sign flipped of A is -4.400000
New Negative array of A is: 1.000000 2.200000 3.300000 4.400000
norm = 6.007495
dot product of A and B is 5.659000
New Negative array of A is: -1.000000 -2.200000 -3.300000 -4.400000
norm = 6.007495
dot product of A and B is 5.659000
sign flipped of A is -1.000000
sign flipped of A is -2.200000
sign flipped of A is -3.300000
sign flipped of A is -4.400000
New Negative array of A is: 1.000000 2.200000 3.300000 4.400000
Reverse array of A is: -4.400000 -3.300000 -2.200000 -1.000000
```