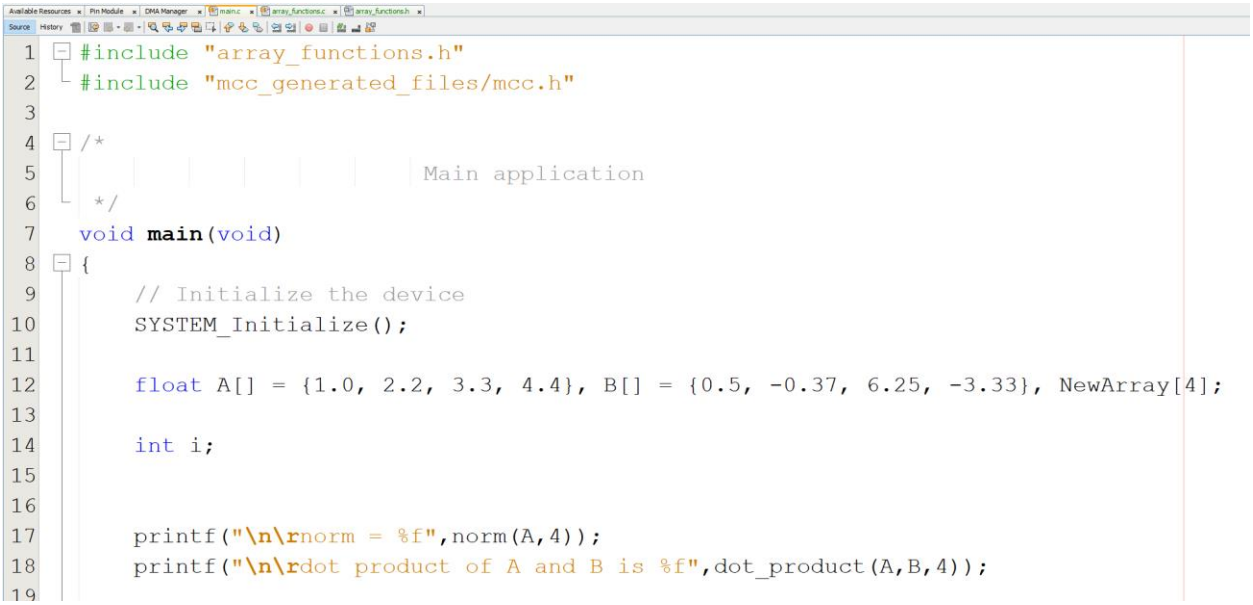
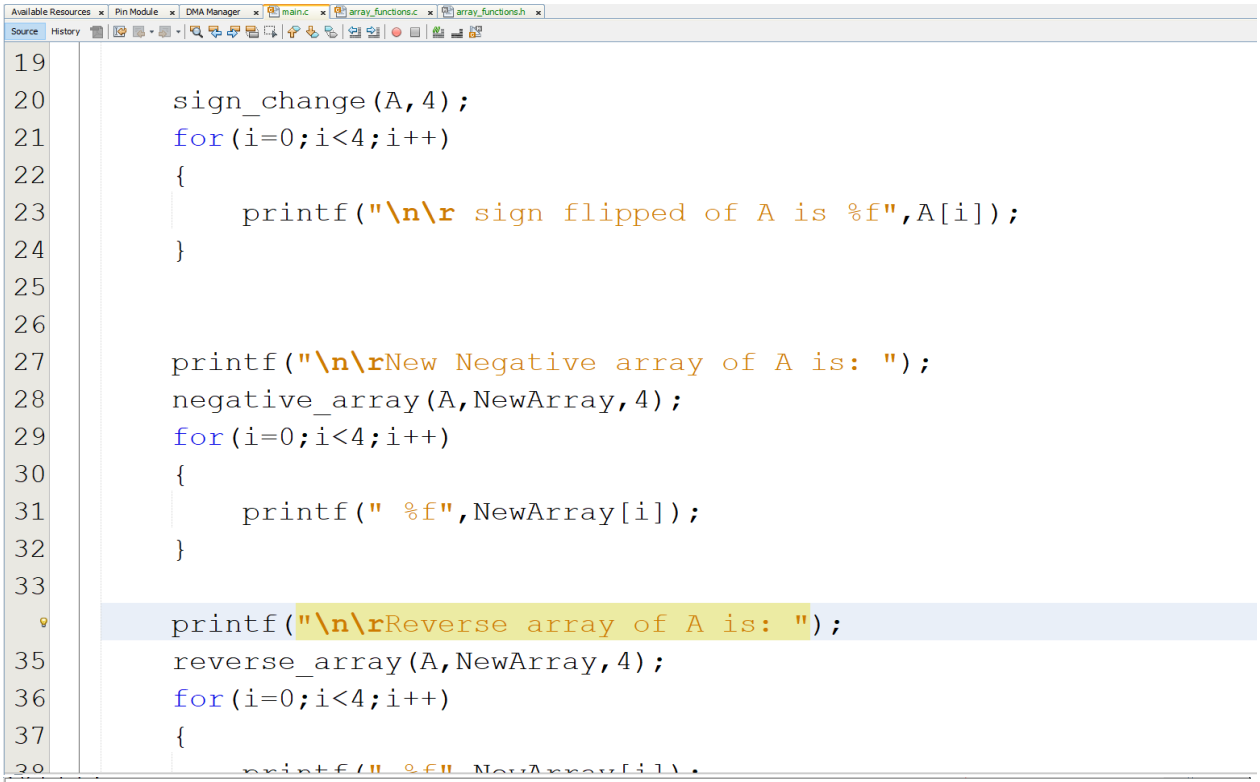
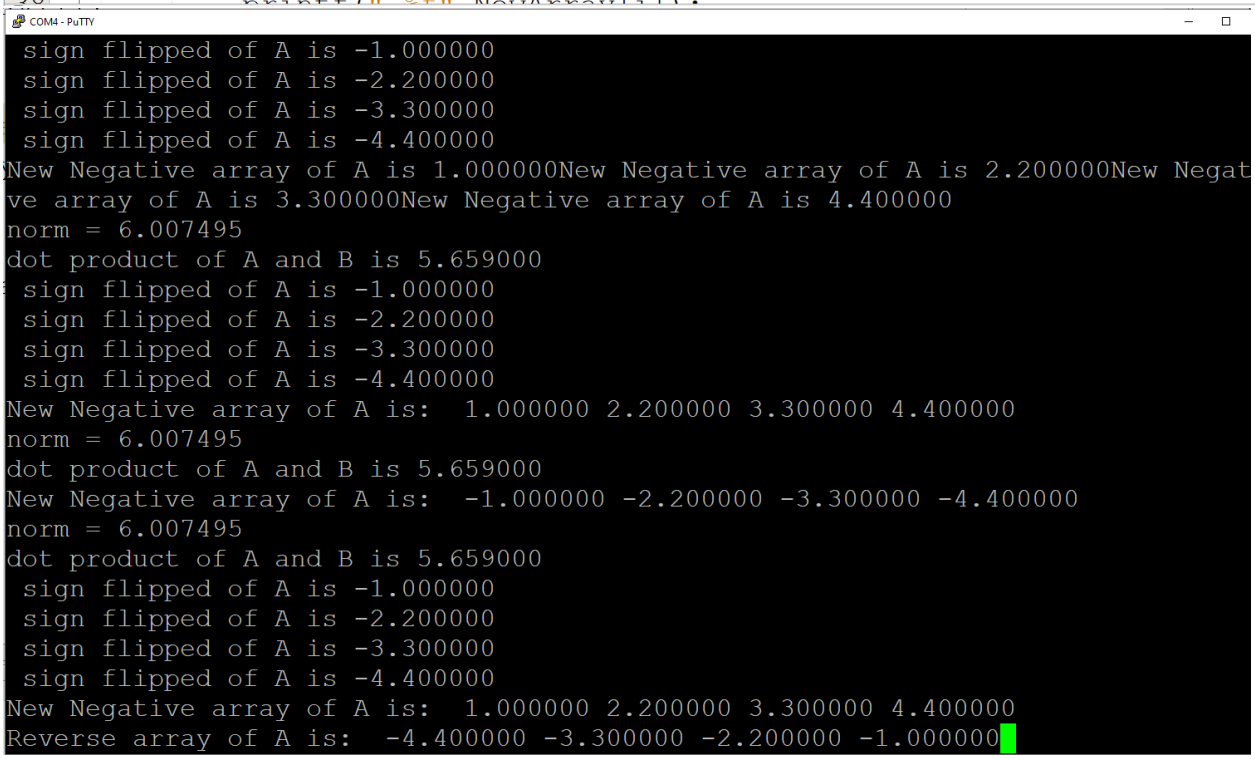
If Something is unclear, I can resubmit it. The answers are all in Putty pf the dot norm, dot product, negative array, sign changed, and reverse array. The code should be a clear indicator of the functions. I have calculated all the values on calculator and they match up.



```c
#include "array_functions.h"
#include "mcc_generated_files/mcc.h"

/*
                         Main application
 */
void main(void)
{
    // Initialize the device
    SYSTEM_Initialize();

    float A[] = {1.0, 2.2, 3.3, 4.4}, B[] = {0.5, -0.37, 6.25, -3.33}, NewArray[4];

    int i;


    printf("\n\rnorm = %f",norm(A,4));
    printf("\n\rdot product of A and B is %f",dot_product(A,B,4));
```



```
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
            printf("\n\rReverse array of A is: ");
35          reverse_array(A,NewArray,4);
36          for(i=0;i<4;i++)
37          {
```



```
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 Negat
ve 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
```

dates.h | dates.c | main.c | Available Resources | Pin Module | DMA Manager | System Module | Interrupt Module | array_functions.h | array_functions.c

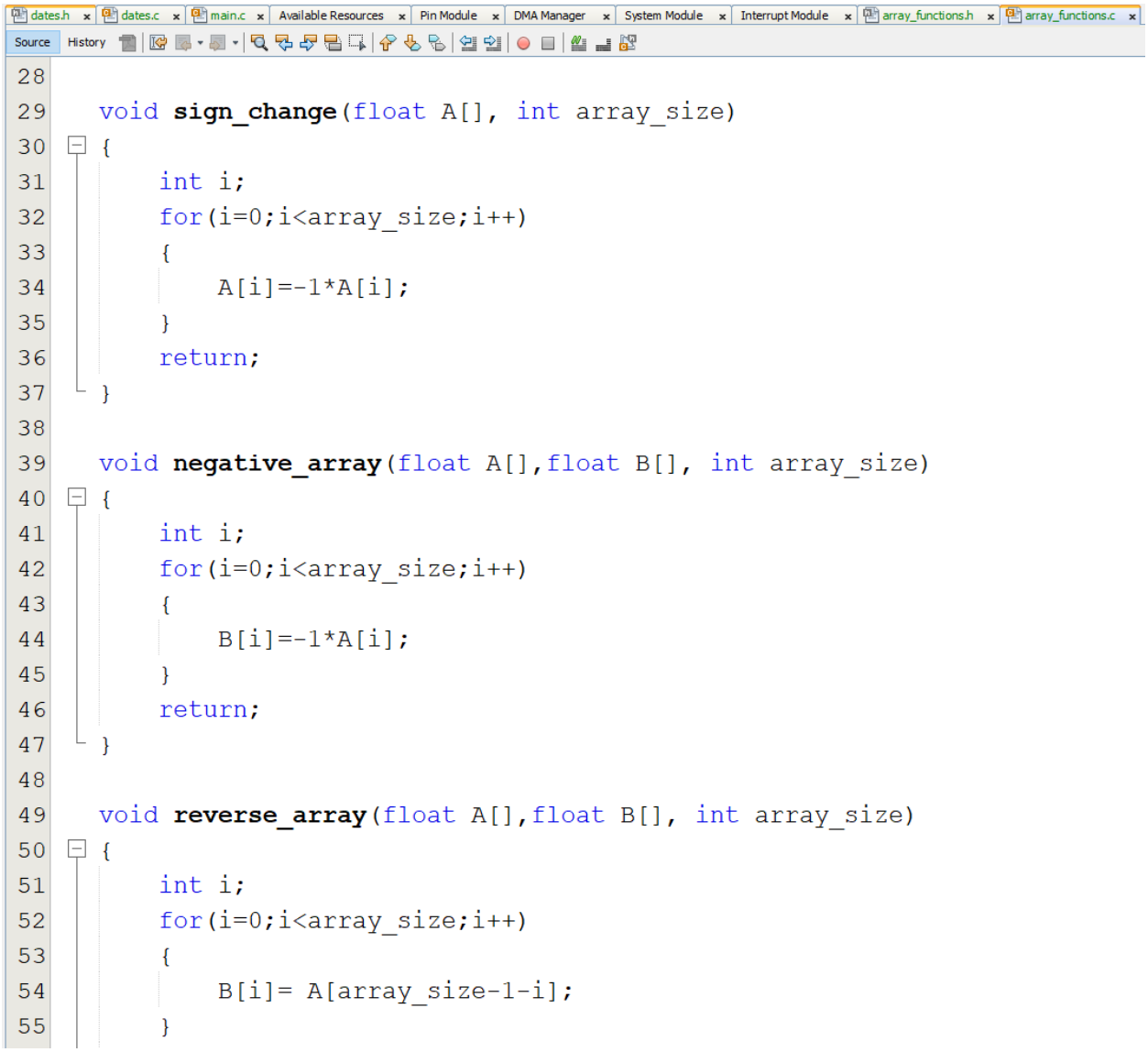
Source | History

```
1  float norm(float A[], int array_size);
2  float dot_product(float A[], float B[], int array_size);
3  void sign_change(float A[], int array_size);
4  void negative_array(float A[],float B[], int array_size);
5  void reverse_array(float A[],float B[], int array_size);
6
```

dates.h | dates.c | main.c | Available Resources | Pin Module | DMA Manager | System Module | Interrupt Module | array_functions.h | array_functions.c

Source | History

```
1  #include "array_functions.h"
2  #include <stdio.h>
3  #include <stdlib.h>
4  #include <string.h>
5  #include <math.h>
6
7  float norm(float A[], int array_size)
8  {
9      int i;
10     float normvalue=0.0;
11     for(i=0;i<array_size;i++)
12     {
13         normvalue += A[i]*A[i];
14     }
15     return sqrt(normvalue);
16 }
17
18 float dot_product(float A[], float B[], int array_size)
19 {
20     float dot_product=0;
21     int i;
22     for(i=0;i<array_size;i++)
23     {
24         dot_product += A[i]*B[i];
25     }
26     return dot_product;
27 }
28
```


dates.h
dates.c
main.c
Available Resources
Pin Module
DMA Manager
System Module
Interrupt Module
array_functions.h
array_functions.c
Source
History
28
29 void sign_change(float A[], int array_size)
30 {
31 int i;
32 for(i=0;i<array_size;i++)
33 {
34 A[i]=-1*A[i];
35 }
36 return;
37 }
38
39 void negative_array(float A[],float B[], int array_size)
40 {
41 int i;
42 for(i=0;i<array_size;i++)
43 {
44 B[i]=-1*A[i];
45 }
46 return;
47 }
48
49 void reverse_array(float A[],float B[], int array_size)
50 {
51 int i;
52 for(i=0;i<array_size;i++)
53 {
54 B[i]= A[array_size-1-i];
55 }