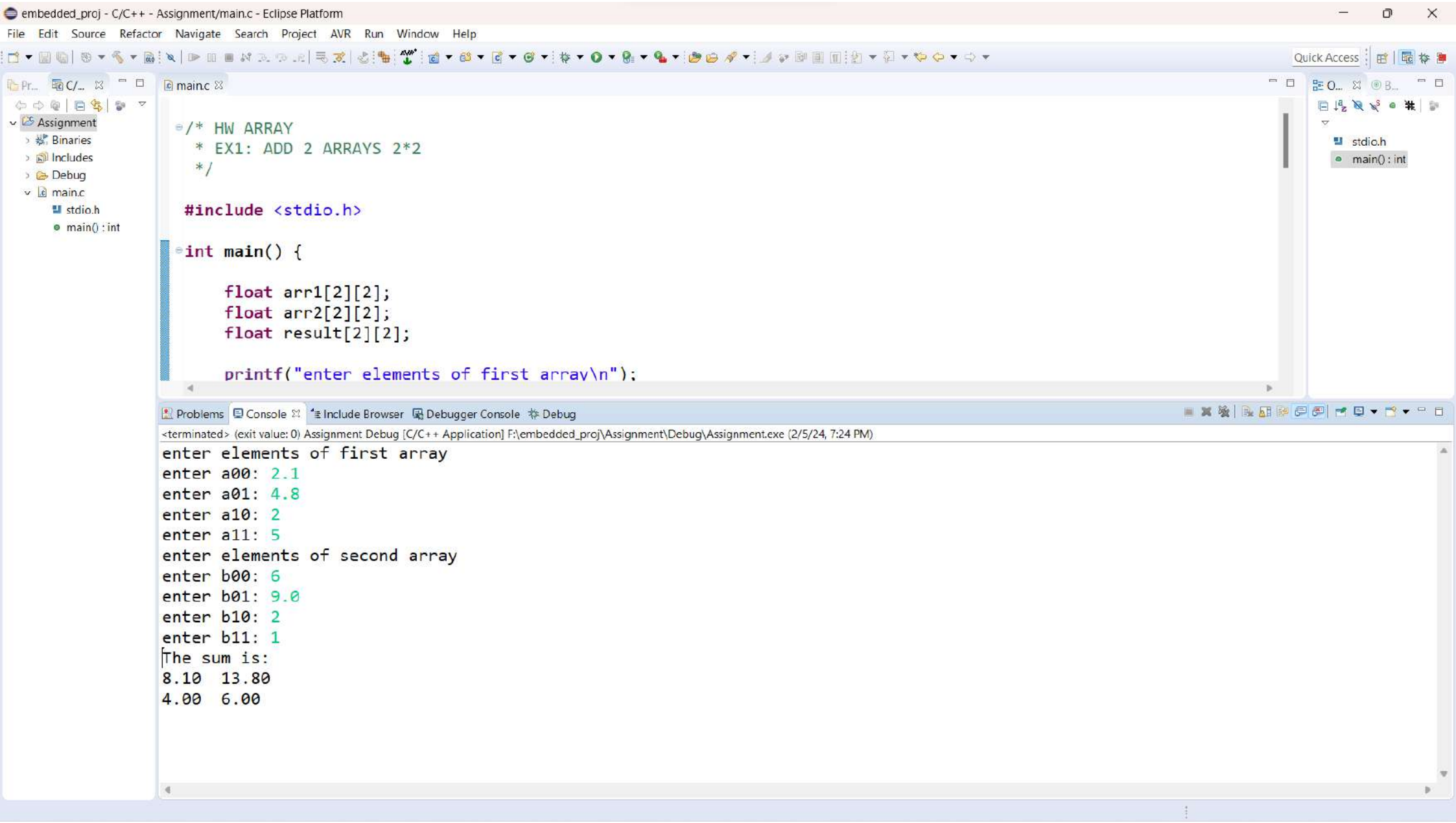
embedded_proj - C/C++ - Assignment/main.c - Eclipse Platform
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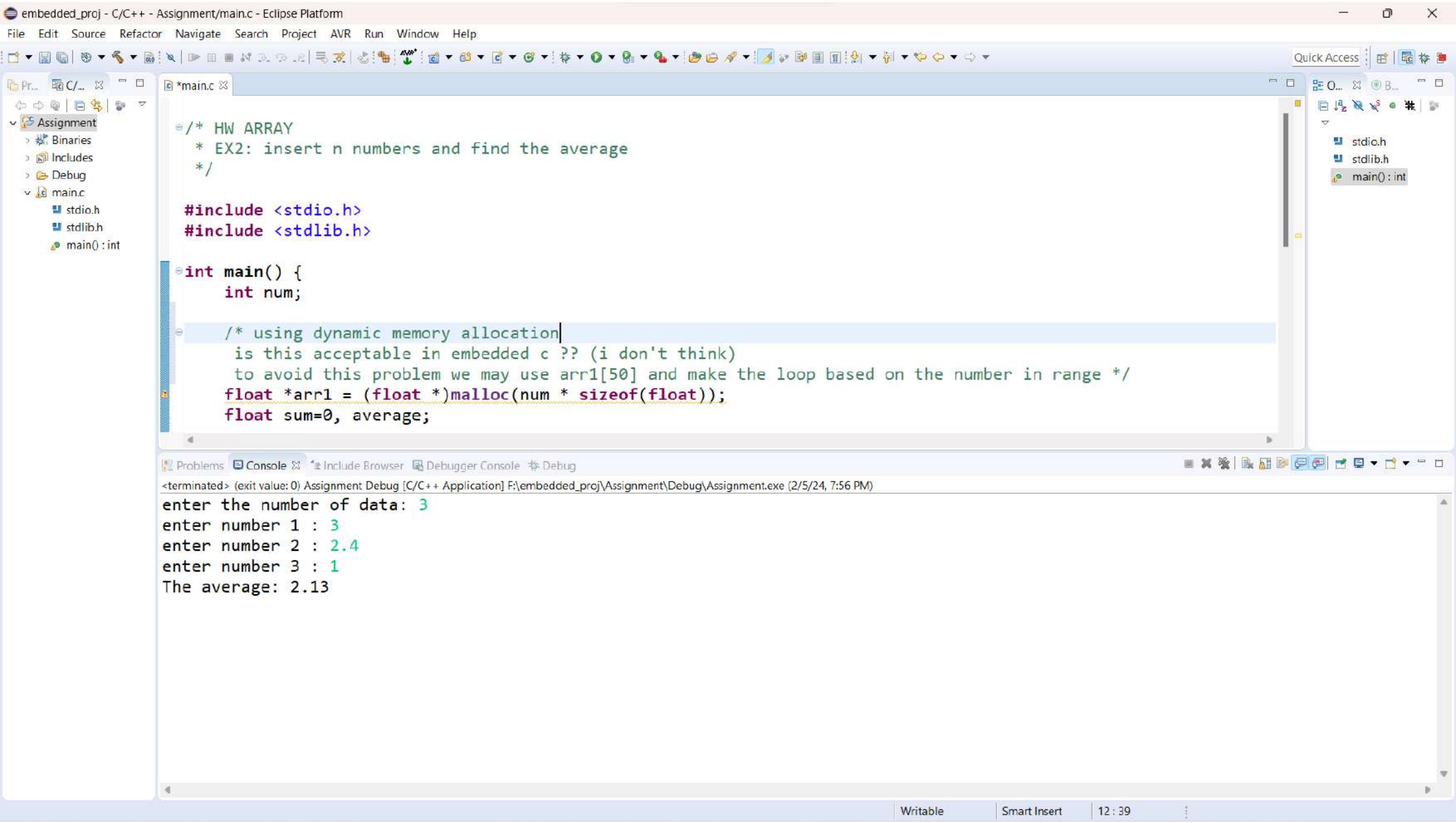
main.c
stdio.h
main() : int
main.c
/* HW ARRAY
* EX1: ADD 2 ARRAYS 2*2
*/
#include <stdio.h>
int main() {
float arr1[2][2];
float arr2[2][2];
float result[2][2];
printf("enter elements of first array\n");
stdio.h
main() : int
Problems Console Include Browser Debugger Console Debug
<terminated> (exit value: 0) Assignment Debug [C/C++ Application] F:\embedded_proj\Assignment\Debug\Assignment.exe (2/5/24, 7:24 PM)
enter elements of first array
enter a00: 2.1
enter a01: 4.8
enter a10: 2
enter a11: 5
enter elements of second array
enter b00: 6
enter b01: 9.0
enter b10: 2
enter b11: 1
The sum is:
8.10 13.80
4.00 6.00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stdio.h
stdlib.h
main() : int
*main.c
/* HW ARRAY
* EX2: insert n numbers and find the average
*/
#include <stdio.h>
#include <stdlib.h>
int main() {
int num;
/* using dynamic memory allocation
is this acceptable in embedded c ?? (i don't think)
to avoid this problem we may use arr1[50] and make the loop based on the number in range */
float *arr1 = (float *)malloc(num * sizeof(float));
float sum=0, average;
stdio.h
stdlib.h
main() : int
Problems
Console
Include Browser
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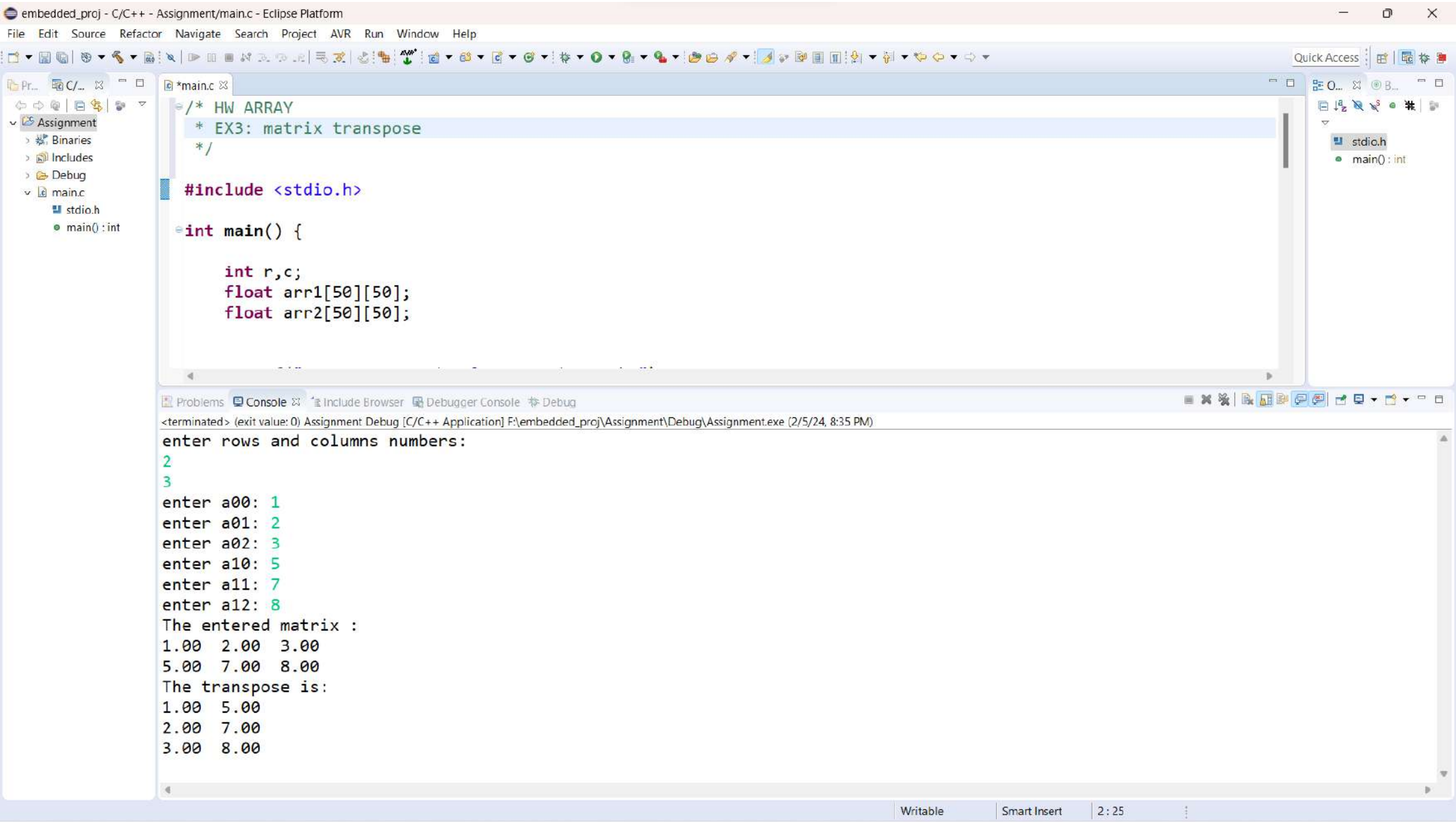
Debug
<terminated> (exit value: 0) Assignment Debug [C/C++ Application] F:\embedded_proj\Assignment\Debug\Assignment.exe (2/5/24, 7:56 PM)
enter the number of data: 3
enter number 1 : 3
enter number 2 : 2.4
enter number 3 : 1
The average: 2.13
Writable
Smart Insert
12 : 39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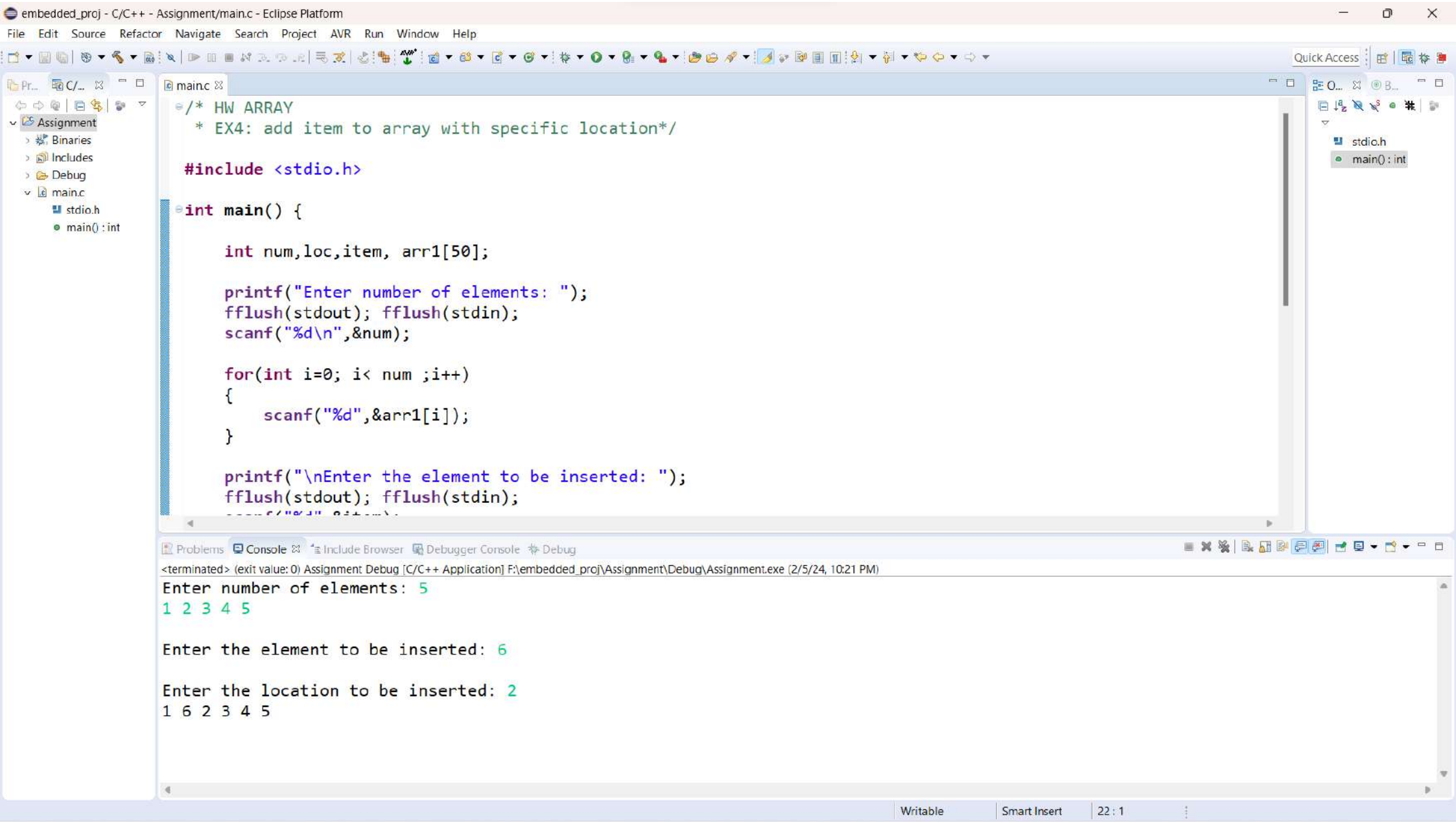
stdio.h
main() : int
*main.c
/* HW ARRAY
* EX3: matrix transpose
*/
#include <stdio.h>
int main() {
int r,c;
float arr1[50][50];
float arr2[50][50];
stdio.h
main() : int
Problems Console Include Browser Debugger Console Debug
<terminated> (exit value: 0) Assignment Debug [C/C++ Application] F:\embedded_proj\Assignment\Debug\Assignment.exe (2/5/24, 8:35 PM)
enter rows and columns numbers:
2
3
enter a00: 1
enter a01: 2
enter a02: 3
enter a10: 5
enter a11: 7
enter a12: 8
The entered matrix :
1.00 2.00 3.00
5.00 7.00 8.00
The transpose is:
1.00 5.00
2.00 7.00
3.00 8.00
Writable
Smart Insert
2 : 25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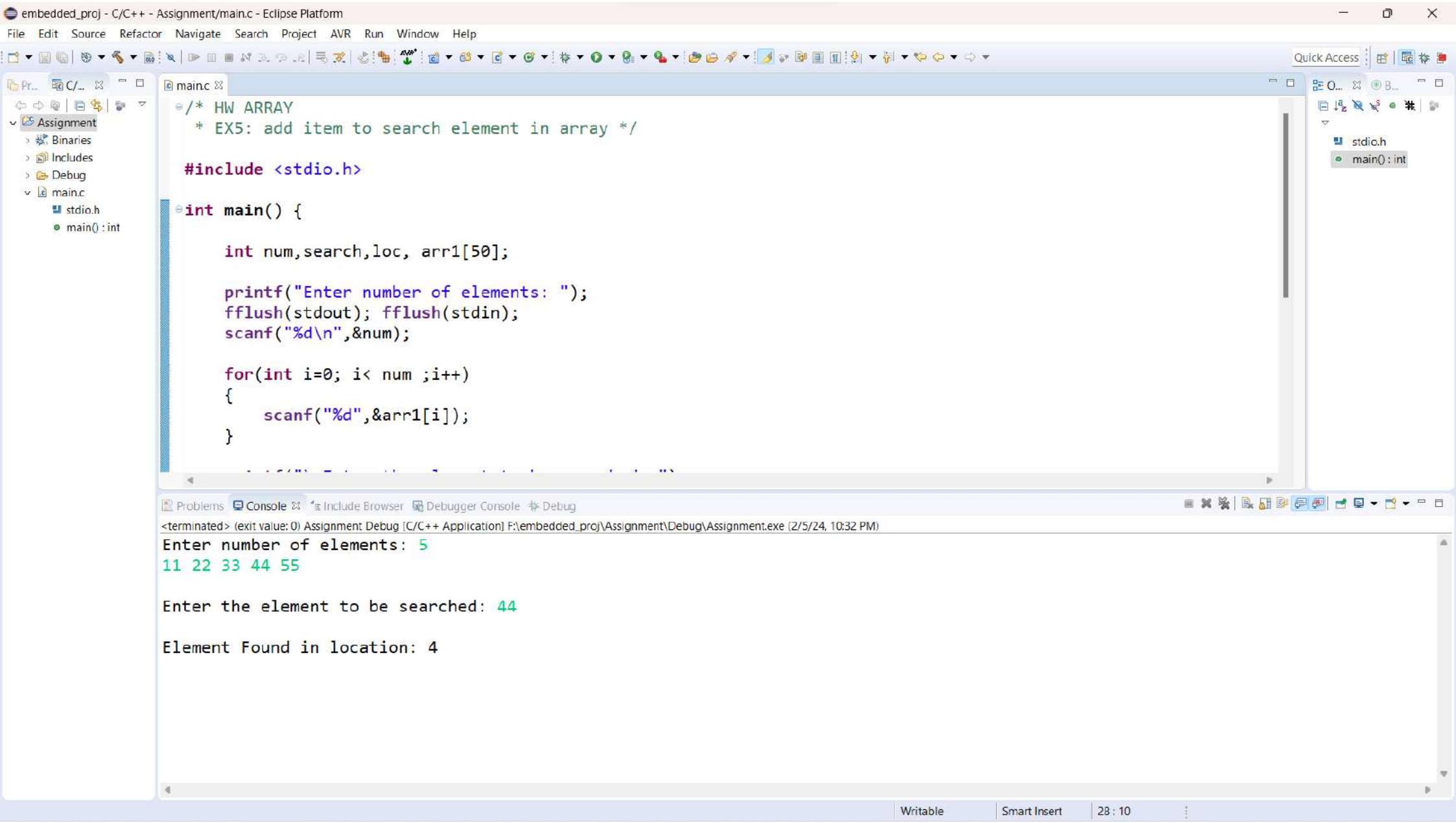
main() : int
main.c
/* HW ARRAY
* EX4: add item to array with specific location*/
#include <stdio.h>
int main() {
int num,loc,item, arr1[50];
printf("Enter number of elements: ");
fflush(stdout); fflush(stdin);
scanf("%d\n",&num);
for(int i=0; i< num ;i++)
{
scanf("%d",&arr1[i]);
}
printf("\nEnter the element to be inserted: ");
fflush(stdout); fflush(stdin);
stdio.h
main() : int
Problems Console Include Browser Debugger Console Debug
<terminated> (exit value: 0) Assignment Debug [C/C++ Application] F:\embedded_proj\Assignment\Debug\Assignment.exe (2/5/24, 10:21 PM)
Enter number of elements: 5
1 2 3 4 5
Enter the element to be inserted: 6
Enter the location to be inserted: 2
1 6 2 3 4 5
Writable
Smart Insert
22 : 1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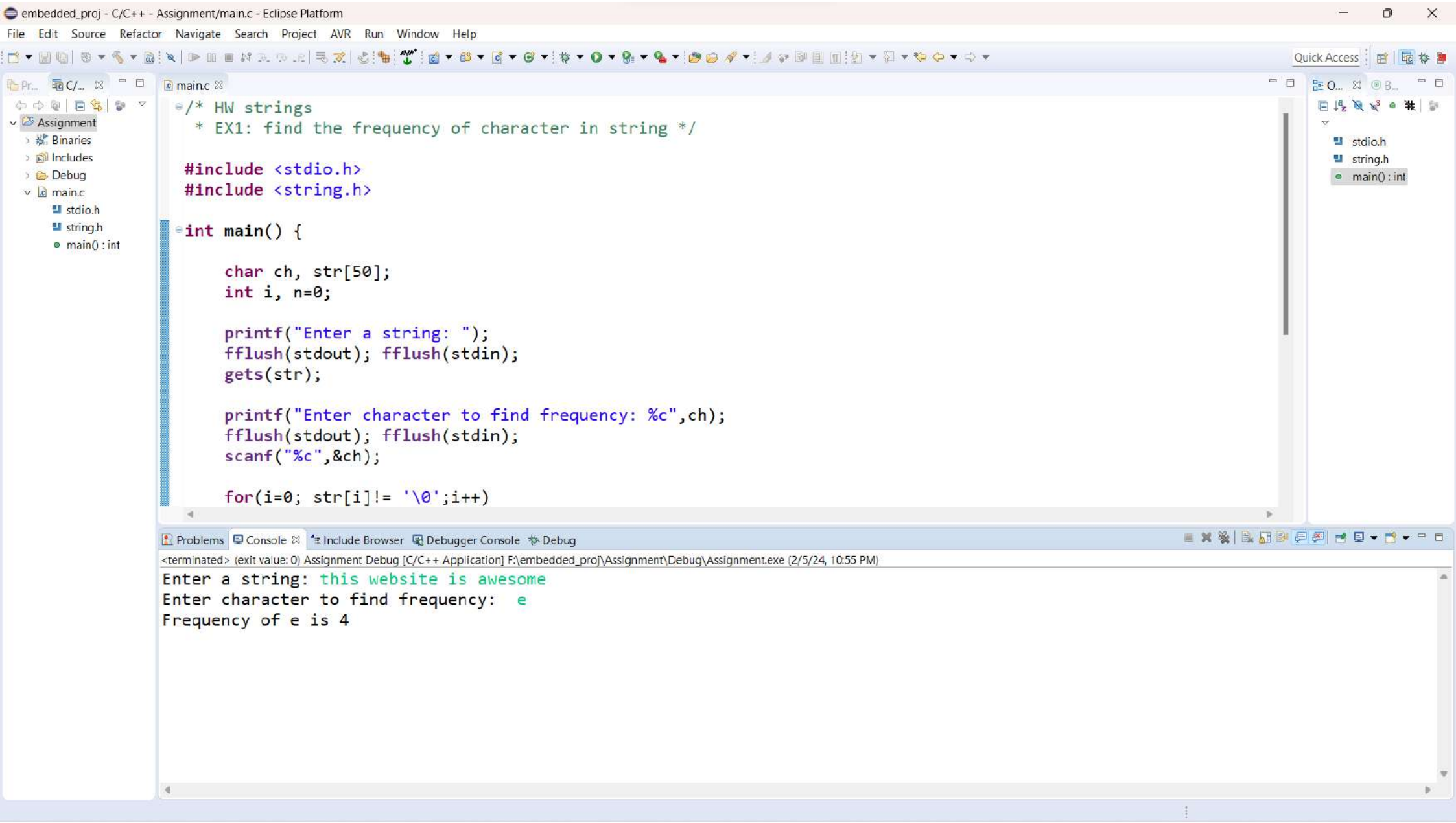
main() : int
main.c
/* HW ARRAY
* EX5: add item to search element in array */
#include <stdio.h>
int main() {
int num,search,loc, arr1[50];
printf("Enter number of elements: ");
fflush(stdout); fflush(stdin);
scanf("%d\n",&num);
for(int i=0; i< num ;i++)
{
scanf("%d",&arr1[i]);
}
stdio.h
main() : int
Problems Console Include Browser Debugger Console Debug
<terminated> (exit value: 0) Assignment Debug [C/C++ Application] F:\embedded_proj\Assignment\Debug\Assignment.exe (2/5/24, 10:32 PM)
Enter number of elements: 5
11 22 33 44 55
Enter the element to be searched: 44
Element Found in location: 4
Writable
Smart Insert
28 : 10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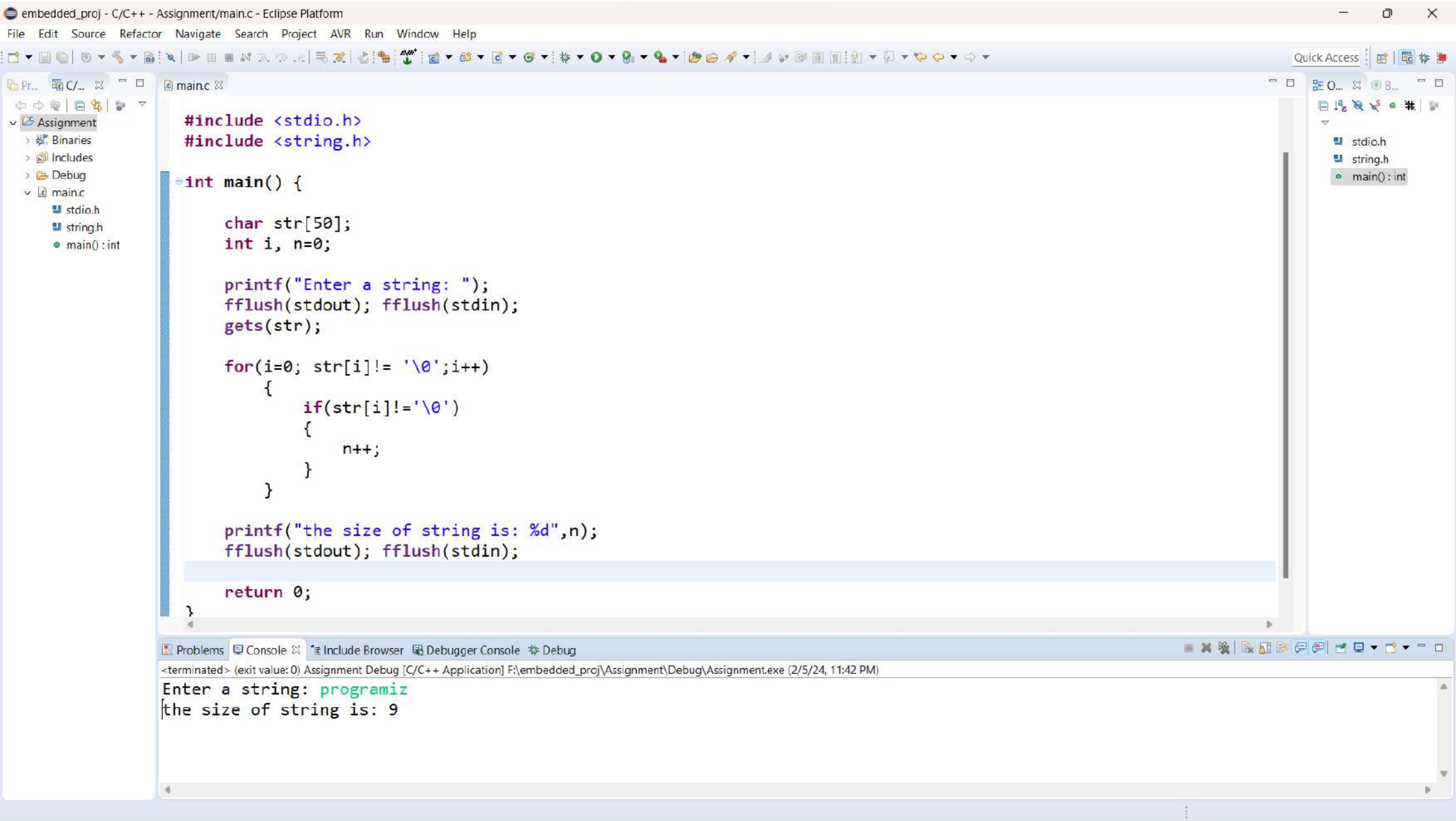
string.h
main() : int
main.c
/* HW strings
* EX1: find the frequency of character in string */
#include <stdio.h>
#include <string.h>
int main() {
char ch, str[50];
int i, n=0;
printf("Enter a string: ");
fflush(stdout); fflush(stdin);
gets(str);
printf("Enter character to find frequency: %c",ch);
fflush(stdout); fflush(stdin);
scanf("%c",&ch);
for(i=0; str[i]!= '\0';i++)
stdio.h
string.h
main() : int
Problems Console Include Browser Debugger Console Debug
<terminated> (exit value: 0) Assignment Debug [C/C++ Application] F:\embedded_proj\Assignment\Debug\Assignment.exe (2/5/24, 10:55 PM)
Enter a string: this website is awesome
Enter character to find frequency: e
Frequency of e is 4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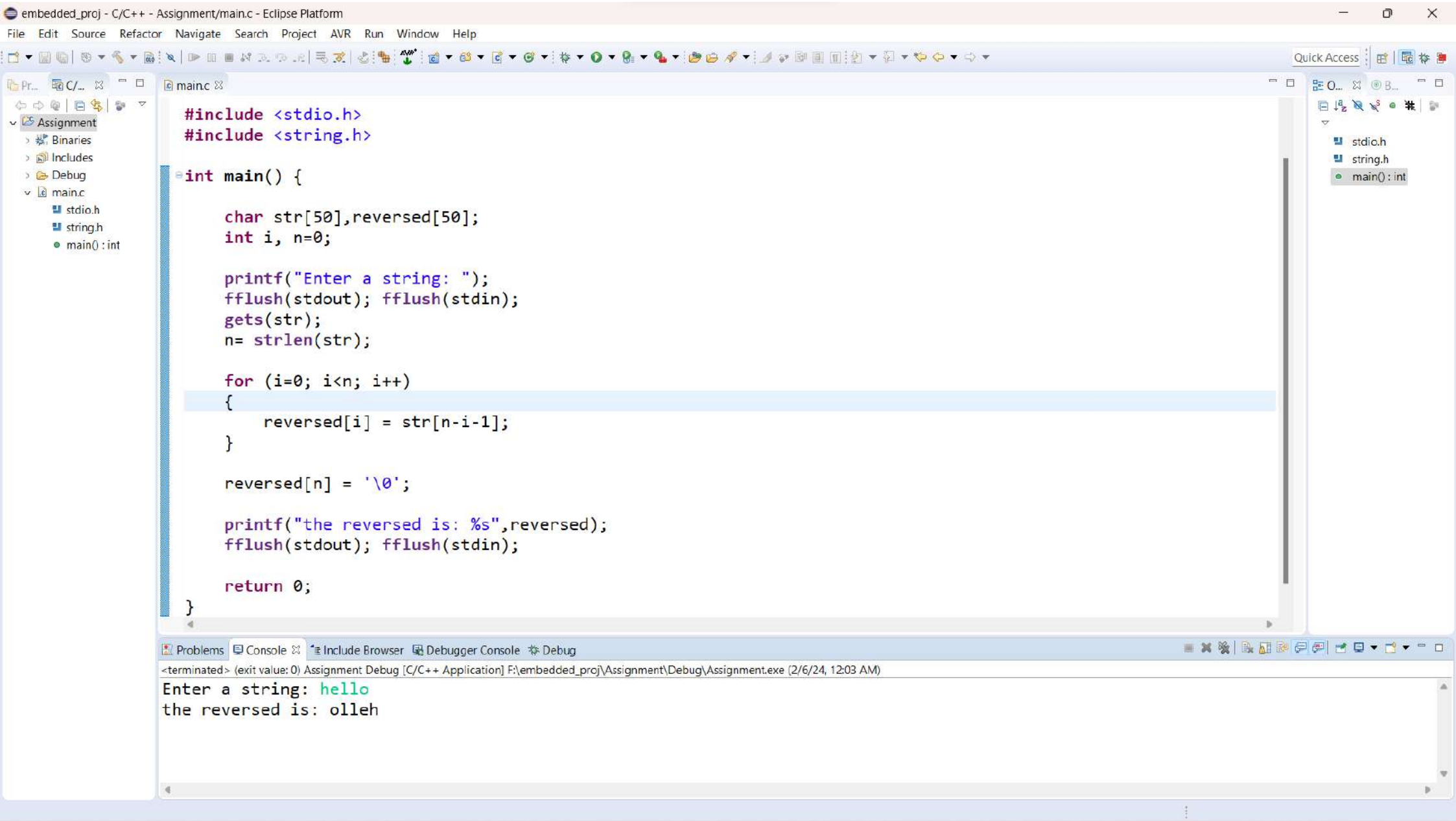
main() : int
main.c
#include <stdio.h>
#include <string.h>
int main() {
char str[50];
int i, n=0;
printf("Enter a string: ");
fflush(stdout); fflush(stdin);
gets(str);
for(i=0; str[i]!= '\0';i++)
{
if(str[i]!='\0')
{
n++;
}
}
printf("the size of string is: %d",n);
fflush(stdout); fflush(stdin);
return 0;
}
stdio.h
string.h
main() : int
Problems Console Include Browser Debugger Console Debug
<terminated> (exit value: 0) Assignment Debug [C/C++ Application] F:\embedded_proj\Assignment\Debug\Assignment.exe (2/5/24, 11:42 PM)
Enter a string: programiz
the size of string is: 9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string.h
main() : int
main.c
#include <stdio.h>
#include <string.h>
int main() {
char str[50],reversed[50];
int i, n=0;
printf("Enter a string: ");
fflush(stdout); fflush(stdin);
gets(str);
n= strlen(str);
for (i=0; i<n; i++)
{
reversed[i] = str[n-i-1];
}
reversed[n] = '\0';
printf("the reversed is: %s",reversed);
fflush(stdout); fflush(stdin);
return 0;
}
stdio.h
string.h
main() : int
Problems Console Include Browser Debugger Console Debug
<terminated> (exit value: 0) Assignment Debug [C/C++ Application] F:\embedded_proj\Assignment\Debug\Assignment.exe (2/6/24, 12:03 AM)
Enter a string: hello
the reversed is: olleh