

# 4주차 과제 실습

The image shows a screenshot of the Microsoft Visual Studio IDE. The main window displays a C program named `201844050.c` with the following code:

```
1 #include <stdio.h>
2
3 int main() {
4
5     int    i, iData[5] = { 1, 2, 3, 4, 5 };
6     float  fData[5] = { 6.0, 7.0, 8.0, 9.0, 10.0 };
7     char   cData[5] = { 'a', 'b', 'c', 'd', 'e' };
8     double dData[5] = { 11.0, 12.0, 13.0, 14.0, 15.0 };
9
10    for (i = 0; i < 5; i++) {
11        printf("%n address: %u iData[%d]= %d", &iData[i], i, iData[i]);
12    }
13    for (i = 0; i < 5; i++) {
14        printf("%n address: %u fData[%d]= %f", &fData[i], i, fData[i]);
15    }
16    for (i = 0; i < 5; i++) {
17        printf("%n address: %u cData[%d]= %c", &cData[i], i, cData[i]);
18    }
19    for (i = 0; i < 5; i++) {
20        printf("%n address: %u dData[%d]= %f", &dData[i], i, dData[i]);
21    }
22
23    return 0;
24 }
```

The debug console window shows the output of the program, displaying the memory addresses and values for each array element:

```
address: 5241520 iData[0]= 1
address: 5241524 iData[1]= 2
address: 5241528 iData[2]= 3
address: 5241532 iData[3]= 4
address: 5241536 iData[4]= 5
address: 5241492 fData[0]= 6.000000
address: 5241496 fData[1]= 7.000000
address: 5241500 fData[2]= 8.000000
address: 5241504 fData[3]= 9.000000
address: 5241508 fData[4]= 10.000000
address: 5241476 cData[0]= a
address: 5241477 cData[1]= b
address: 5241478 cData[2]= c
address: 5241479 cData[3]= d
address: 5241480 cData[4]= e
address: 5241428 dData[0]= 11.000000
address: 5241436 dData[1]= 12.000000
address: 5241444 dData[2]= 13.000000
address: 5241452 dData[3]= 14.000000
address: 5241460 dData[4]= 15.000000
```

The console also shows the following messages:

```
E:\workspace\transcode\repos\project\msdebug\Project1.exe(프로세스 15372개)이(가) 종료되었습니다(코드: 0개).
디버깅이 중지될 때 콘솔을 자동으로 닫으려면 [도구] -> [옵션] -> [디버깅] > [디버깅이 중지되면 자동으로 콘솔 닫기]를 사용
하도록 설정합니다.
이 창을 닫으려면 아무 키나 누르세요...
```

The status bar at the bottom indicates that the program has finished execution successfully.