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실습 1.

myheader.h 파일:

```
#pragma once

void add(int a, int b);
void multiply(int a, int b);
```

myheader.c 파일:

```
#include <stdio.h>

void add(int a, int b) {
	printf("Added value=%d\n", a + b);
}

void multiply(int a, int b) {
	printf("Multiplied value = %d\n", a * b);
}
```

소스 코드:

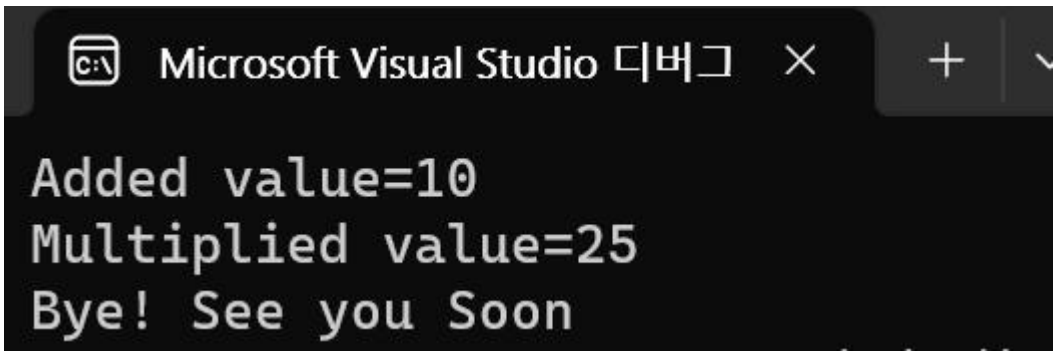
```
#include <stdio.h>
#include "myheader.h"

int main() {
	add(4, 6);
	/* This calls add function written in myheader.h
	and therefore no compliation error. */

	multiply(5, 5);

	printf("Bye! See you Soon");
	return 0;
}
```

실습 1 실행 화면.



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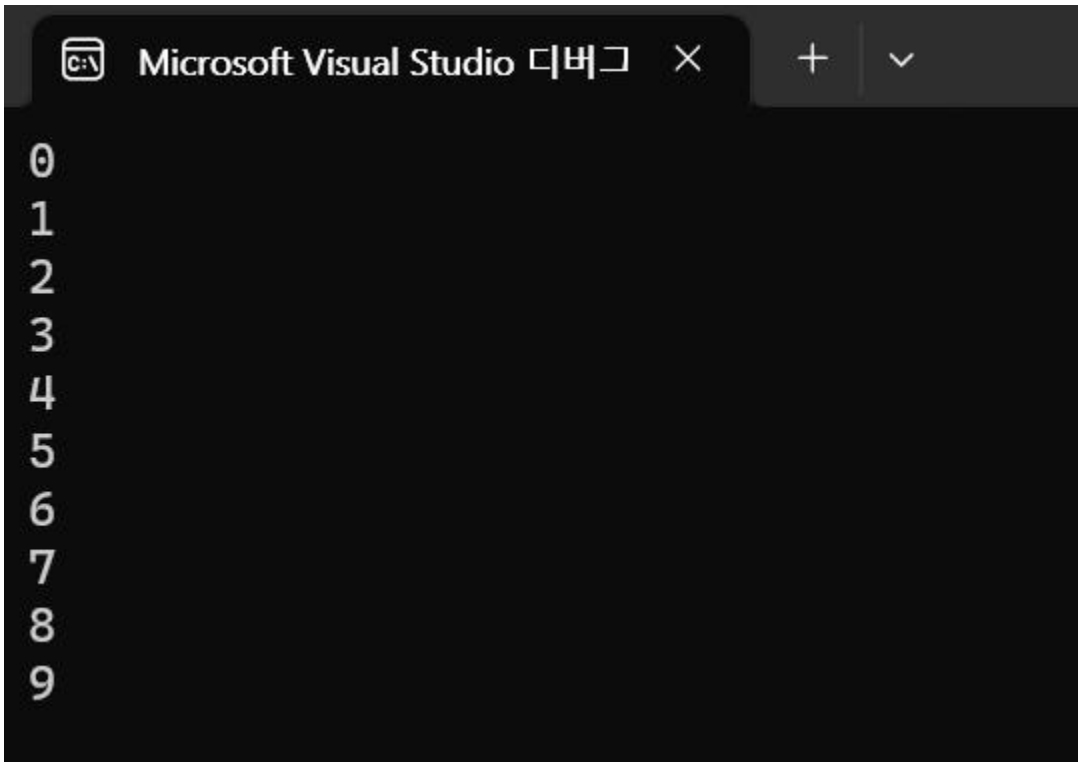
실습 2.

```c
#include <stdio.h>
//macro definition
#define LIMIT 10

int main() {

	for (int i = 0; i < LIMIT; i++) {
		printf("%d \n", i);
	}
	return 0;
}
```

실습 2 실행 화면.



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실습 3.

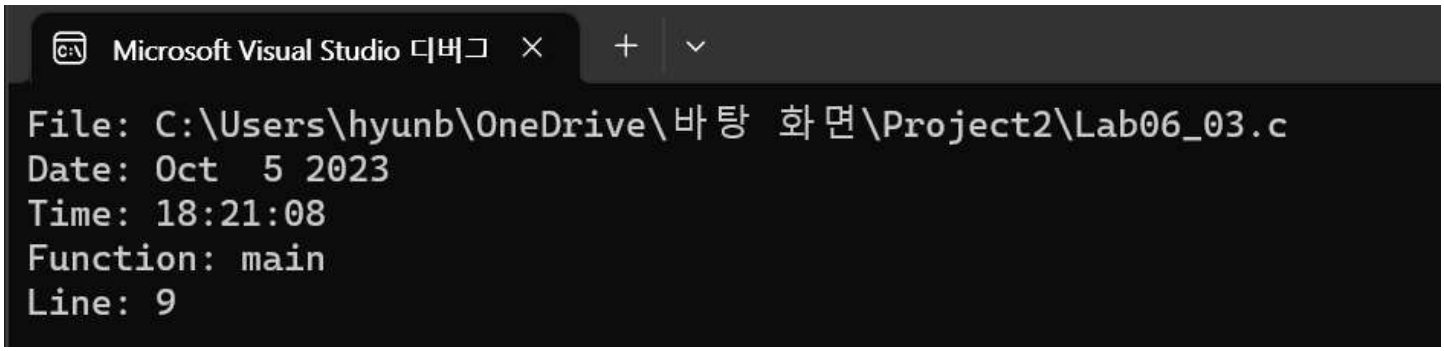
```c
#include <stdio.h>

int main() {

	printf("File: %s\n", __FILE__);
	printf("Date: %s\n", __DATE__);
	printf("Time: %s\n", __TIME__);
	printf("Function: %s\n", __FUNCTION__);
	printf("Line: %d\n", __LINE__);
	//pritnf("ANSI : %d\n", __STDC__);
	//visual c++ dlf ruddn c++ 이 기본이라 __STDC__ 가 정의되어 있지 않음

	return 0;
}
```

실습 3 실행 화면.



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실습 4.

```c
#include <stdio.h>

#define min(a, b) (((a) < (b)) ? (a) : (b))

int main() {
    int a = 18;
    int b = 76;

    printf("Minimum value between %d and %d is %d \n", a, b, min(a, b));

    return 0;
}
```

실습 4 실행 화면.

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실습 5.

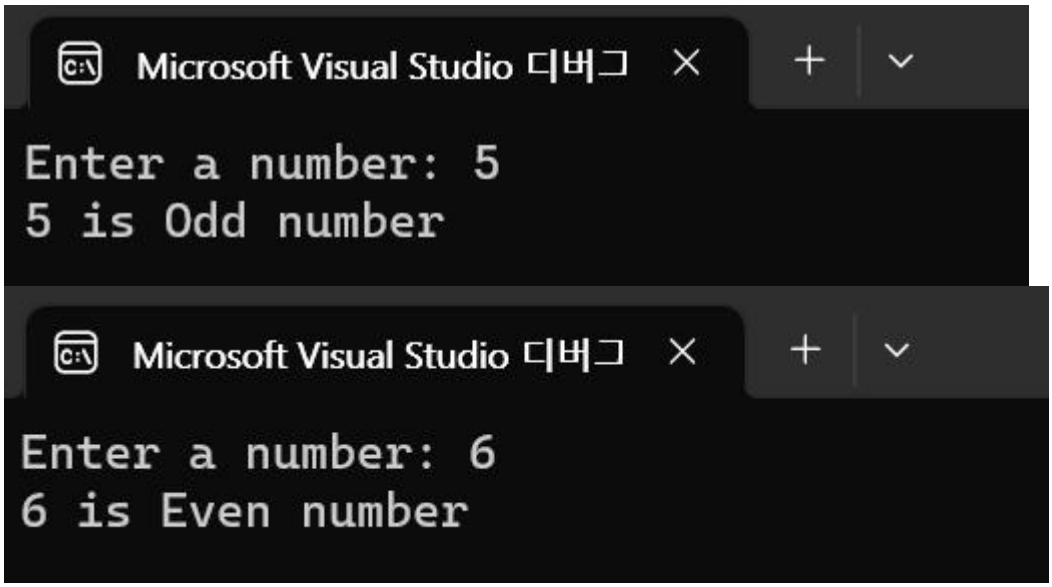
```
#include <stdio.h>

#define MACRO(num, str){\
                printf("%d", num); \
                printf(" is");\
                printf(" %s number", str); \
                printf("\n");\
}

int main() {
    int num;
    printf("Enter a number: ");
    scanf("%d", &num);

    if (num & 1) {
        MACRO(num, "Odd");
    }
    else {
        MACRO(num, "Even");
    }
    return 0;
}
```

실습 5 실행 화면.



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실습 6.

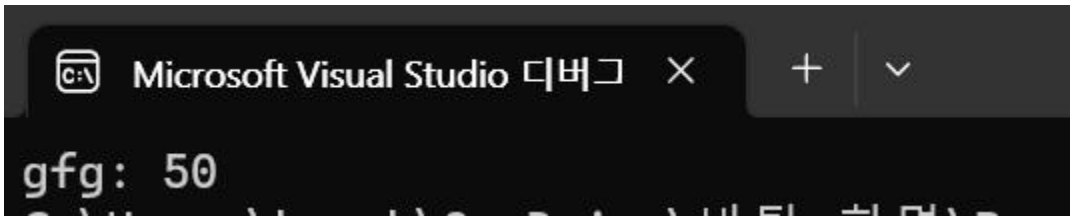
```
#include <stdio.h>

#define gfg 5

#if gfg > 200
#undef gfg
#define gfg 200
#elif gfg < 50
#undef gfg
#define gfg 50
#else
#undef gfg
#define gfg 100
#endif

int main() {
    printf("gfg: %d", gfg);
    return 0;
}
```

실습 6 실행 화면.



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실습 7.

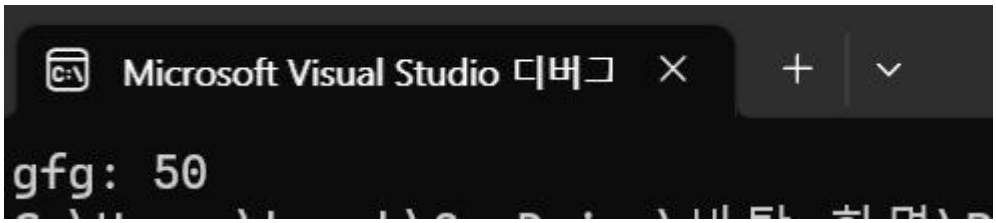
```
#include <stdio.h>

#define gfgn 5

#ifdef gfg
#undef gfg
#define gfg 200
#else
#define gfg 50
#endif

int main() {
    printf("gfg: %d", gfg);
    return 0;
}
```

실습 7 실행 화면.



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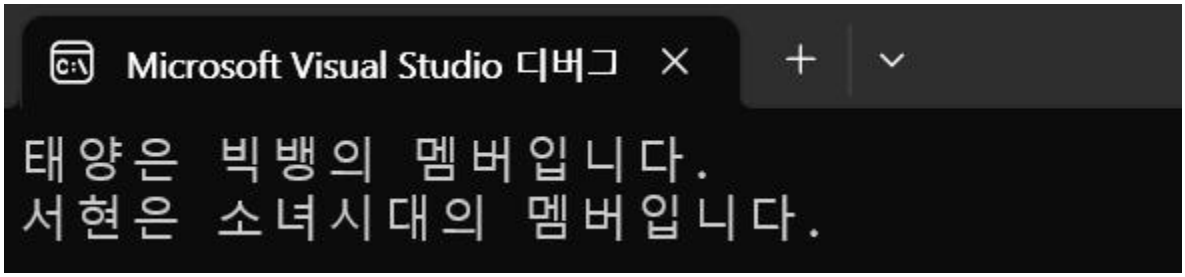
실습 8.

```
#include <stdio.h>
#define STR(A, B) #A"은 " #B"의 멤버입니다."

int main() {
	puts(STR(태양, 빅뱅));
	puts(STR(서현, 소녀시대));
	return 0;
}
```

실습 8 실행 화면.



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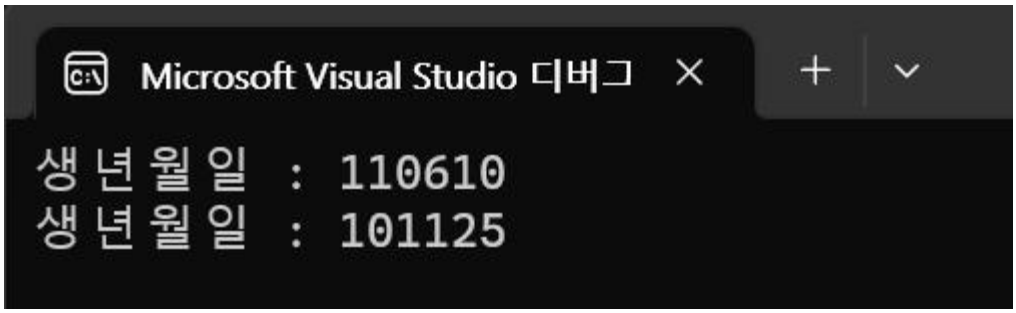
실습 9.

```
#include <stdio.h>
#define DATE(Y, M, D) Y ## M ## D
int main() {
	printf("생년월일 : %d\n", DATE(11, 06, 10));
	printf("생년월일 : %d\n", DATE(10, 11, 25));
	return 0;
}
```

실습 9 실행 화면.



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실습 10.

myheader.h 파일:

```
#pragma once
#define SQUARE(x) ((x)*(x))
#define CUBE(x) ((x)*(x)*(x))
```

소스 코드:

```
#include <stdio.h>
#include "myheader.h"

int main() {
	int n;
	printf("입력 : ");
	scanf("%d", &n);

	printf("%d의 제곱 = %d, %d의 세제곱 = %d\n", n, SQUARE(n), n, CUBE(n));
	return 0;
}
```

실습 10 실행 화면.