정보검색과 데이터마이닝 20163170 최은주 KS 완성형, 유니코드 실습

- 1. KS 완성형(KS X 1001)한글 코드 표를 출력하시오.
- 1) [A1~FE][A1~FE] 영역 전체 코드 표를 출력하시오.

```
▼ 진단 도구
₫ ir_lab1
                                 (전역 범위)
                                                            - @ ksx1001_table()
                                                                                           C:\Users\abcdo\source
             E#include <stdio.h>
            #include <stdlib.h>
                                                                                                Øxfee7 (65255)
Øxfee8 (65256)
Øxfee9 (65257)
             Evoid ksx1001_table()
                                                                                                Oxfeea (65258)
                                                                                                Øxfeeb (65259)
                                                                                                Øxfeec (65260)
                    int hcode;
                                                                                                0xfeed (65261)
                                                                                                Øxfeee (65262)
                                                                                                0xfeef (65263)
0xfef0 (65264)
                    for (i = 0xA1; i <= 0xFE; i++) {
                         for (j = 0xA1; j <= 0xFE; j++) {
hcode = (i << 8) | j;
                                                                                                0xfef1 (65265)
                                                                                                Øxfef2 (65266)
                              printf("%c%c : 0x%x (%d)\mn", i, j, hcode, hcode);
                                                                                                0xfef3 (65267)
                              cnt++;
                                                                                                0xfef4 (65268)
                                                                                                0xfef5 (65269)
                                                                                                0xfef6 (65270)
0xfef7 (65271)
0xfef8 (65272)
                    printf("cnt : %d", cnt);
                                                                                                0xfef9 (65273)
                                                                                                Oxfefa (65274)
Oxfefb (65275)
             ⊡int main()
                                                                                                Øxfefc (65276)
                                                                                                0xfefd (65277)
                    ksx1001_table();
                                                                                              : Øxfefe (65278)
: 8836계속하려면
                    system("pause");
                                                                                          <
                                                                                               CPU 사용량
                                                                                                ○ CPU 프로필 기록
```

2) 한글 2,350자(B0~C8)만 출력하시오.

```
ir lab1.c 🖽
                                                                                 C:\Users\abcdo\source\n
▼ ir lab1
                             (전역 범위)
                                                     - @ ksx1001 table()
                                                                                    Øxc8e2 (51426)
            E#include <stdio.h>
                                                                                  : 0xc8e3 (51427)
            #include <stdlib.h>
                                                                                  : 0xc8e4 (51428)
                                                                                  : 0xc8e5 (51429)
            Evoid ksx1001_table()
                                                                                  : 0xc8e6 (51430)
                                                                                  : 0xc8e7 (51431)
                                                                                  : 0xc8e8 (51432)
                                                                                  : 0xc8e9 (51433)
                  int hcode;
                                                                                  : Øxc8ea (51434)
                                                                                  : 0xc8eb (51435)
                  for (i = 0xB0; i <= 0xC8; i++) {
                                                                                  : 0xc8ec (51436)
                      for (j = 0xA1; j <= 0xFE; j++) {
                                                                                  : 0xc8ed (51437)
                                                                                  : 0xc8ee (51438)
: 0xc8ef (51439)
                          hcode = (i \ll 8) \mid i;
                          printf("%c%c: 0x%x (%d)\mn", i, j, hcode, hcode);
                                                                                  : 0xc8f0 (51440)
                                                                                  : 0xc8f1 (51441)
                                                                                : 0xc8f2 (51442)
                                                                                  : 0xc8f3 (51443)
                                                                                  : 0xc8f4 (51444)
                  printf("cnt: %d", cnt);
                                                                                  : 0xc8f5 (51445)
: 0xc8f6 (51446)
                                                                                  : 0xc8f7 (51447)
            □int main()
                                                                                  : 0xc8f8 (51448)
                                                                                  : 0xc8f9 (51449)
                                                                                  : 0xc8fa (51450)
                  ksx1001_table();
                                                                                  : 0xc8fb (51451)
                  system("pause");
                                                                                  : 0xc8fc (51452)
: 0xc8fd (51453)
                  return 0;
                                                                                항 : Øxc8fe (51454)
                                                                               cnt : 2350계속하려면
```

3) 한자 4,888자(CA~FD)만 출력하시오.

```
ir_lab1.c
                                                                                                진단 도구
🛂 ir_lab1
                                                             - ⊗ ksx1001_table()
                                (전역 범위)
                                                                                             ■ C:\Users\abcdo\source\repos
            #include <stdlib.h>
                                                                                           欠: 0xfde2(64994)
欽: 0xfde3(64995)
                                                                                           款: 0xfde4 (64996)
吸: 0xfde5 (64997)
             ⊟void ksx1001_table()
                                                                                           (Å: Øxfde6 (64998)
                                                                                           治: Oxfde7 (64999)
编: Oxfde8 (65000)
                     int hcode;
                                                                                           int cnt = 0;
                                                                                               : 0xfde9 (65001)
                    for (i = 0xCA; i <= 0xFD; i++) {
                        for (j = 0xA1; j <= 0xFE; j++) {
                              hcode = (i << 8) | j;
                              printf("%c%c : 0x%x (%d)\mn", i, i, hcode, hcode);
                              cnt++
                    printf("cnt : %d", cnt);
                    ksx1001_table();
system("pause");
                                                                                              : 0xfdf9 (65017)
: 0xfdfa (65018)
                                                                                               : 0xfdfb (65019)
                     return 0;
                                                                                           稿 : 0xfdfc (65020)
稀 : 0xfdfd (65021)
誌 : 0xfdfe (65022)
cnt : 4888계속하려면 아무
```

4) CP949의 8,822자를 출력하시오.

4-1 사진

```
진단 도...▼ 무 X
™ ir_lab1

        → ksx1001_table()

                              (전역 범위)
                                                                                       ■ 선택 C·₩Users#ahcdo#
            E#include <stdio.h>
           #include <stdlib.h>
                                                                                        : 0xc590 (50576)
                                                                                        : 0xc591 (50577)
            Evoid ksx1001_table()
                                                                                        : 0xc592 (50578)
                                                                                        : 0xc593 (50579)
                                                                                        : 0xc594 (50580)
                                                                                        : 0xc595 (50581)
                                                                                        : 0xc596 (50582)
                                                                                        : 0xc597 (50583)
                                                                                      흴
                                                                                        : 0xc598 (50584)
: 0xc599 (50585)
                          hcode = (i << 8) \mid j;
                                                                                        : 0xc59a (50586)
                                                                                        : 0xc59b (50587)
                          printf("%c%c : 0x%x (%d)\m", i, j, hcode, hcode);
                                                                                        : 0xc59c (50588)
                                                                                        : 0xc59d (50589)
                                                                                        : 0xc59e (50590)
: 0xc59f (50591)
                                                                                        : 0xc5a0 (50592)
                          printf("%c%c: 0x%x (%d)\m", i, j, hcode, hcode);
                                                                                        : 0xc641 (50753)
                                                                                        : 0xc642 (50754)
                                                                                        : 0xc643 (50755)
                                                                                        : 0xc644 (50756)
                                                                                        : 0xc645 (50757)
: 0xc646 (50758)
                      for (j = 0x81; j <= 0xFE; j++) {
                                                                                        : 0xc647 (50759)
                          hcode = (i << 8) \mid j;
                                                                                        : 0xc648 (50760)
                          printf("%c%c; 0x%x (%d)\m", i, j, hcode, hcode);
                                                                                        : 0xc649 (50761)
                                                                                        : 0xc64a (50762)
                                                                                        : 0xc64b (50763)
                                                                                          0xc64c (50764)
                                                                                        : 0xc64d (50765)
ir lab1.c ≠ ×
                                                                                         ▼ 진단 도... ▼ 무 X
⅓ ir lab1
                               (전역 범위)

    ksx1001 table0

                                                                                          ■ 선택 C:₩Users₩abcdo₩s
                  for (i = 0xA1; i \le 0xC5; i++) {
           0-0
                            for (j = 0x41; j <= 0x5A; j++) {
                                                                                              0xc58f (50575)
                                                                                            : 0xc590 (50576)
                               hcode = (i << B) \mid j;
                                                                                            : 0xc591 (50577)
: 0xc592 (50578)
                                printf("%c%c : 0x%x (%d)\mn", i, j, hcode, hcode);
                                                                                            : 0xc593 (50579)
                                                                                            : 0xc594 (50580)
                                                                                            : 0xc595 (50581)
                            for (j = 0x61; j \le 0x7A; j++) {
                               hcode = (i << 8) | j;
printf("%c%c: 0x%x (%d)\m", i, j, hcode, hcode);
                                                                                           : 0xc596 (50582)
                                                                                            : 0xc597 (50583)
                                                                                           : 0xc598 (50584)
                                                                                            : 0xc599 (50585)
                                                                                            : 0xc59a (50586)
                                                                                            : 0xc59b (50587)
                                                                                            : 0xc59c (50588)
                           for (j = 0x81; j <= 0xA0; j++) {
                                                                                            : 0xc59d (50589)
                                hcode = (i << 8) | j;
                                                                                              0xc59e (50590)
                                printf("%c%c: 0x%x (%d)\mn", i, j, hcode, hcode);
                                                                                              0xc59f (50591)
                                                                                              0xc5a0 (50592)
                                                                                              0xc641 (50753)
                                                                                              0xc642 (50754)
                                                                                              0xc643 (50755)
                   i = 0 \times C6;
                                                                                              0xc644 (50756)
                  for (j = 0x41; j \le 0x52; j++)
                                                                                              0xc645 (50757)
                                                                                              0xc646 (50758)
                                                                                            : 0xc647 (50759)
                                                                                            : 0xc648 (50760)
                       printf("%c%c: 0x%x (%d)\m", i, j, hcode, hcode);
                                                                                            : 0xc649 (50761)
                                                                                            : 0xc64a (50762)
                                                                                            : 0xc64b (50763)
                   printf("cnt: %d", cnt);
                                                                                              0xc64c (50764)
                                                                                            : 0xc64d (50765)
                                                                                            : 0xc64e (50766)
: 0xc64f (50767)
            Eint main()
                                                                                            : 0xc650 (50768)
                                                                                            : 0xc651 (50769)
                                                                                         힣 : 0xc652 (50770)
cnt : 8822계속하려면
                  ksx1001_table();
```

2. 임의의 유니코드 값에 대한 한글 코드 값(10진수 또는 16진수)과 <초성, 중성, 종성>값을 출력하시오.

```
ir_lab1.c = X
₫ ir_lab1
                                                                   - @ main()

    (전역 범위)

             #include <stdlib.h>
             #include <time.h>
            □int main(){
                   srand(time(NULL));
                   int hcode = rand() % 11172 + 0xA000;
                   int temp = hcode - 0xA000;
                   int first = temp / 21 / 28;
                   int second = (temp % (21 * 28)) / 28;
                   int third = temp % 28;
                   printf("%d 0x%x --> (%d %d %d) \mun", hcode, hcode, first, second, third);
                   system("pause");
                                                     X
      C:\Users\users\userbookabcdo\undamsource\undamrepos\undamm... —
                                              48687 Øxbe2f --> (7 19 7)
계속하려면 아무 키나 누르십시오 . . .
```

3. 임의의 유니코드 음절을 자모를 분리하며 출력하시오.



처음에는 파일입출력을 사용하여 3번문제를 실습해보려고 했지만

output.txt에 초성중성종성이 제대로 나오지않아

교수님께서 오늘 수업시간에 알려주신 putchar를 사용하여 실습해보았습니다.