Operators in C Lecture 2 Assignments

- 1. Code the following:
 - a. Prompt the user to enter a two-digit number
 - b. Display the number with the digits reversed

```
C as1.c
                C as2.c
           ×
C as1.c > 分 main(void)
       #include <stdio.h>
       int main(void)
           int number, ones;
           printf("Please enter a 2-digit number: ");
           scanf("%d", &number);
           ones = number % 10;
           number = (number / 10) + (ones * 10);
           printf("Reverse: %d", number);
           return 0;
 17
PROBLEMS
           OUTPUT
                    TERMINAL
                               DEBUG CONSOLE
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\WEEK 2> cd "C:
cc as1.c -o as1 }; if ($?) { .\as1 }
Please enter a 2-digit number: 75
Reverse: 57
PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\WEEK 2>
```

2. Extend the code in item 1, such that it reverses a 3-digit number.

```
C as1.c
                C as2.c
                            ×
C as2.c > 分 main(void)
       #include <stdio.h>
       int main(void)
           int number, ones, tens;
           printf("Please enter a 3-digit number: ");
           scanf("%d", &number);
           ones = number % 10;
           number = (number / 10);
           tens = number % 10;
           number = (number / 10) + (tens * 10) + (ones * 100);
           printf("Reverse: %d", number);
           return 0;
 19
                              DEBUG CONSOLE
                    TERMINAL
Windows PowerShell
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PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\WEEK 2> cd "c:\Users\Maxinne
cc as2.c -o as2 } ; if ($?) { .\as2 }
Please enter a 3-digit number: 123
Reverse: 321
PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\WEEK 2>
```

3. Provide the output of the following codes, given that i, j, and k are integer variables.

```
EXP... [ C as 1.c
                                                                          C as#3.c
Ф
       1 #include <stdio.h>
                                            int main(void)

≡ as#3.exe
                                                 int i, j, k;
       C as2.c
                                                i = 3; j = 4; k = 5;
printf("%d\n", i < j || ++j < k);
       assignment2[Cahilig].docx
                                                 i = 7; j = 8; k = 9;
printf("%d\n", i - 7 && j++ < k);
       ▶ Lecture 2 Assignment.pdf
       {} WEEK 2.code-workspace
                                                i = 7; j = 8; k = 9;
printf("%d\n", (i == j) || (j == k));
printf("%d %d %d\n", i, j, k);
                                                 i = j = k = 1;
printf("%d\n", ++i || ++j && ++k);
printf("%d %d %d\n", i, j, k);
                                                 return 0;
                                      PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
                                                                                                                                                                                  PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\WEEK 2> cd "c:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\WEEK 2\"; if ($ cc as#3.c -\circ as#3 }; if ($?) { \as#3 }
                                                rs\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\WEEK 2>
```