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 CMSC 21 - 1
 March 14, 2022

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

Screenshot of the code:

```
1
        //Lecture 2 Assignment
2
        //No.1
3
         /Reverses a 2-Digit Number
        #include <stdio.h>
4
5
6
7
8
9
       int main()
             int first digit, second digit; //declare variables as integers
            //"%ld" corresponds to one digit
printf("Please enter a 2-digit number: "); //prompt the user for an input
scanf("%ld%ld", &first_digit, &second_digit); //assign each value (digit) to their corresponding variables, respectively
10
11
12
13
14
             printf("Reverse: %ld%ld\n", second_digit, first_digit);
                                                                                         //reversing the positions of the two digits
15
16
             return 0:
17
18
```

Example Outputs:

Please enter a 2-digit number: 75 Reverse: 57 Please enter a 2-digit number: 28 Reverse: 82

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

Screenshot of the code:

```
//Lecture 2 Assignment
//No.2
//Reverses a 3-digit number
finclude <stdio.h>
int main()

(int first_digit, second_digit, last_digit; //declare variables as integers

//"%ld" corresponds to one digit
printf("Please enter a 3-digit number: "); //prompt the user for an input
scanf("%ld%ld%ld", &first_digit, &second_digit, &last_digit); //assigning each value (digit) to each variable, respectively

printf("Reverse: %ld%ld%ld\n",last_digit, second_digit, first_digit); //reversing the positions of first and last digits, retaining the second digit
return 0;
}

//Lecture 2 Assignment
//No.2
//Reverses a 3-digit number
//prompt the user for an input
scanf("%ld%ld%ld", &first_digit, &second_digit, flast_digit); //assigning each value (digit) to each variable, respectively
return 0;
}
```

Example Outputs:

Please enter a 3-digit number: 123 Reverse: 321

Please enter a 3-digit number: 584 Reverse: 485 3. Provide the output of the following codes, given that i, j, and k are integer variables.

```
a) i = 3; j = 4; k = 5;
  printf("%d", i < j || ++j < k);
b) i = 7; j = 8; k = 9;
  printf("%d",i - 7 && j++ < k);
c) i = 7; j = 8; k = 9;
  printf("%d", (i = j) || (j == k));
  printf("%d %d %d", i, j, k);
d) i = j = k = 1;
  printf("%d", ++i || ++j && ++k);
  printf("%d %d %d", i, j, k);</pre>
```

Screenshot of the code:

```
//Lecture 2 Assignment
 1
 2
      //No.3
 3
      #include <stdio.h>
 4
 5
 6
      int main (void)
 7
    □ {
 8
9
          int i, j, k; //declaring variables as integers
10
11
          printf("3.The outputs for each code:\n");
12
13
          i = 3; j = 4; k = 5;
14
          printf("\n\ta) %d \n ", i < j || ++j < k);
15
16
          //b
          i = 7; j = 8; k = 9;
17
          printf("\n\t\b) %d \n ", i - 7 && j++ < k);
18
19
20
          i = 7; j = 8; k = 9;
21
22
          printf("\n\tc) %d \n ", (i = j) || (j == k));
23
          printf("\n\t %d %d %d \n ", i, j, k);
24
25
          //d
          i = j = k = 1;
26
27
          printf("\n\td) %d \n ", ++i || ++j && ++k);
28
          printf("\n\t %d %d %d \n ", i, j, k);
29
30
          return 0;
31
32
```

Output:

```
3.The outputs for each code:

a) 1

b) 0

c) 1

8 8 9

d) 1

2 1 1
```