

Operators in C

Lecture 2 Assignments

1.

```
1  /** CELIS, KRISTINA | ASSIGNMENT 2 | as1 */
2
3  #include <stdio.h>
4
5  int main(void)
6  {
7      /* VARIABLES */
8      int number, digit1, digit2;           // declares the ff variables as integers
9
10     /* USER INPUT */
11     printf("Enter a two-digit number (i.e. 17): ");
12     scanf("%d", &number);                 // will read the user's input and point it to the 'number' variable
13
14     /* CALCULATIONS */
15     // used modulo and division operators to get the remainder from each corresponding places
16     digit1 = number % 10;                  // 'ones' digit
17     digit2 = (number / 10) % 10;           // 'tens' digit
18
19     /* OUTPUT */
20     printf("Reverse: %d%d", digit1, digit2); // displays the reversed number
21
22     return 0;
23 }
```

Enter a two-digit number (i.e. 17): 23

Reverse: 32

PS C:\Users\Kristina\Desktop\ACADS\CMSC 21\source codes>

2.

```
1  /** CELIS, KRISTINA | ASSIGNMENT 2 | as2 */
2
3  #include <stdio.h>
4
5  int main(void)
6  {
7      /* VARIABLES */
8      int number, digit1, digit2, digit3; // declares the ff variables as integers
9
10     /* USER INPUT */
11     printf("Enter a two-digit number (i.e. 123): ");
12     scanf("%d", &number);                 // will read the user's input and point it to the 'number' variable
13
14     /* CALCULATIONS */
15     // used modulo and division operators to get the remainder from each corresponding places
16     digit1 = number % 10;                  // 'ones' digit
17     digit2 = (number / 10) % 10;           // 'tens' digit
18     digit3 = (number / 100) % 10;         // 'hundreds' digit
19
20     /* OUTPUT */
21     printf("Reverse: %d%d%d", digit1, digit2, digit3); // displays the reversed number
22
23     return 0;
24 }
```

Enter a two-digit number (i.e. 123): 567

Reverse: 765

PS C:\Users\Kristina\Desktop\ACADS\CMSC 21\source codes>

3. Expected Output:

```
1  #include <stdio.h>
2  int main (void){
3      int i, j, k;
4
5      i = 3; j = 4; k = 5;
6      printf("%d", i < j || ++j < k);
7
8      return 0;
9  }
```

1

```
1  #include <stdio.h>
2  int main (void){
3      int i, j, k;
4
5      i = 7; j = 8; k = 9;
6      printf("%d", i - 7 && j++ < k);
7
8      return 0;
9  }
```

0

```
1  #include <stdio.h>
2  int main (void){
3      int i, j, k;
4
5      i = 7; j = 8; k = 9;
6      printf("%d", (i = j) || (j == k));
7      printf("%d %d %d", i, j, k);
8
9      return 0;
10 }
```

18 8 9

1

8 8 9

Output if we add
a '\n' after '%d' in
line 6

```
1  #include <stdio.h>
2  int main (void){
3      int i, j, k;
4
5      i = j = k = 1;
6      printf("%d", ++i || ++j && ++k);
7      printf("%d %d %d", i, j, k);
8
9      return 0;
10 }
```

12 1 1

1

2 1 1

Output if we add
a '\n' after '%d' in
line 6