## CMSC 21 Assignment 2

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

```
#include <stdio.h>
int main(){
   int input,first,second,third;
   printf("Insert three-digit number: ");
   scanf("%d", &input);
   first = (input / 100) % 10;
   second = (input / 10) % 10;
   third = input % 10;
   //gets the hundreds digit
   //gets the tens digit
   //gets the ones digit
   //gets the ones digit

//gets the ones digit

//prints the result
printf("Reversed digits: %d%d%d", third, second, first);

}
```

## Output:

```
Insert two-digit number: 13
Reversed digits: 31
```

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

Output: Insert three-digit number: 435 Reversed digits: 534 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);
#include <stdio.h>
int main(){
   int i,j,k;
   i = 3; j = 4; k = 5;
   printf("%d", i < j || ++j < k);</pre>
                                          Output: 1
 b) i = 7; j = 8; k = 9;
     printf("%d", i - 7 \&\& j++ < k);
#include <stdio.h>
int main(){
    int i,j,k;
    i = 7; j = 8; k = 9;
    printf("%d",i - 7 && j++ < k);</pre>
                                          Output: 0
 c) i = 7; j = 8; k = 9;
    printf("%d", (i = j) \mid | (j == k));
     printf("%d %d %d", i, j, k);
#include <stdio.h>
int main(){
   int i,j,k;
   i = 7; j = 8; k = 9;
   printf(|"%d\n|", (i = j) || (j == k)|);
printf("%d %d %d", i, j, k);
Output: 1
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d) i = j = k = 1;
   printf("%d", ++i || ++j && ++k);
   printf("%d %d %d", i, j, k);
 #include <stdio.h>
  int main(){
                                          Output: 1
     int i,j,k;
                                                  211
     printf("%d\n", ++i || ++j && ++k);
     printf("%d %d %d", i, j, k);
```