## 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

```
This program provides the reverse of the input by the user.
int main(void)
  int n, dig_1, dig_2, rev, orig;
  // asks the user for the input
printf("Enter a 2-digit number:\n ");
scanf("%d",&n);
  /*the values was stored in the variable
  /*utilized modulo operator which will take
  the remainder of the number */
/*divided the number by 10 which takes the
  orig = n;
  dig_1 = n %10;
  n= n/10;
dig_2= n %10;
  n=n/10;
  /*multiplied by tens, ones took the sum of the
  two and store in the variable named rev */
  /*for example, user input = 57; dig_1= 57%10 q = 5; r. 7 then 57/10 = 5 ; dig_2 = 5%10
  q=0; r=5; reverse= 7(10) + 5(1) = 75*/
  rev = dig_1*10 + dig_2*1;
  printf("\nThe reversed number of %d",orig);
printf(" is %d\n",rev);
```

```
Select "C:\Users\acer\OneDrive - University of the Philippines\Desktop\kkkk\b
Enter a 2-digit number:
89

The reverse number of 89 is 98
Process returned 0 (0x0) execution time : 2.586 s
Press any key to continue.
```

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

```
This program provides the reverse of the input by the user.
int main(void)
   int n, dig_1, dig_2, dig_3, rev, orig;
  printf("Enter a 3-digit number:\n ");
scanf("%d",&n);
  the remainder of the number */
/*divided the number by 10 which takes the
  orig = n;
  dig_1 = n %10;
  n= n/10;
dig_2= n %10;
   n=n/10;
  dig_3 = n%10;
  n=n/10;
 /*multiplied by one hundred, ten and one; took the sum
of the three variables and store in the variable named rev */
 /*for example, user input = 357; dig_1= 357%10
q = 35; r. 7 then 357/10 = 35 ; dig_2 = 35%10
q=3; r.5 ; dig_3= 3%10 = q=0 ; r.3
reverse= 7(100) + 5(10) + 3(1)= 753*/
  //result was printed
  rev = dig_1*100 + dig_2*10 + dig_3*1;
  printf("\nThe reversed number of %d",orig);
printf(" is %d\n",rev);
```

```
"C:\Users\acer\OneDrive - University of the Philippines\Desktop\CMSC-21\L

Enter a 3-digit number:

879

The reversed number of 879 is 978

Process returned 0 (0x0) execution time : 6.172 s

Press any key to continue.
```

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

```
#include <stdio.h>

#include <include <includ
```

```
"C:\Users\acer\OneDrive - University of the Philippines\Desktop\CMSC-21\Lectur
a) 1
b) 0
c) 1
c.1) 889
d) 1
d.1) 211

Process returned 0 (0x0) execution time : 0.049 s

Press any key to continue.
```