Operators in C

Lecture 2 Assignments

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1.

main.c

```c
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int digit, remainder, reverse, digitl = 0; // declares variable
    printf("Enter a two digit number: "); // asks user for input
    scanf("%d", &digit); // store the inputed value in digit variable

    remainder = digit % 10; // isolates the last digit number
    digitl = digit/10; // removes last digit from the digit
    reverse = (remainder *10)+ digitl; // append last digit to reverse
    printf("The reverse of number of %d is %d", digit, reverse);

  return 0;
}
```

```
"C:\Users\briana jade\Documents\C\as1.c\bin\Debug\as1.c.exe"
Enter a two digit number: 75
The reverse of number of 75 is 57
Process returned 0 (0x0)   execution time : 8.674 s
Press any key to continue.
```

2.

main.c

```c
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int a, b, digit; // declares variables
    printf("Enter a three digit number: "); // asks the user to input 3 digit number
    scanf("%d", &digit); // stores the inputed value in the variable digit
    a = digit % 10; // isolates the last digit number
    digit = digit / 10; // removes last digit from the digit
    b = digit % 10; // isolate the second digit number
    digit = digit / 10; // removes second digit from the digit
    digit = a * 100 + b * 10 + digit; // append the digit to reverse
    printf("Reverse number is %d", digit); // prints out the reversed digit

    return 0;
}
```

```
Select "C:\Users\briana jade\Documents\C\as2.c\bin\Debug\as2.c.exe"
Enter a three digit number: 123
Reverse number is 321
Process returned 0 (0x0)   execution time : 8.896 s
Press any key to continue.
```

3.

a.

main.c

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

The output is 1

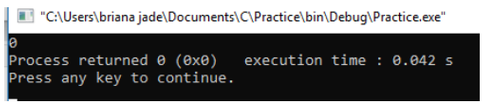
```
"C:\Users\briana jade\Documents\C\Practice\bin\Debug\Practice.exe"
1
Process returned 0 (0x0)   execution time : 4.234 s
Press any key to continue.
```

b.

main.c

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

The Output is 0



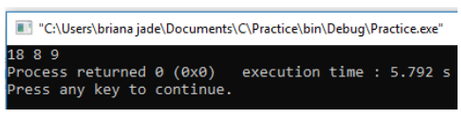
c.

main.c

```c
#include <stdio.h>
int main (void){
    int i, j, k;
    i = 7;
    j = 8;
    k = 9;
 printf("%d", (i = j) || (j == k));
 printf("%d %d %d", i, j, k);

return 0;
}
```

The output is 18 8 9



d.

main.c

```c
#include <stdio.h>
int main (void){
    int i, j, k;
    i = j = k = 1;
    printf("%d", ++i || ++j && ++k);
    printf("%d %d %d", i, j, k);

return 0;
}
```

The output is 12 1 1