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

```
finclude <stdio.h>
int main()

int main()

int number, answer = 0;

printf("Enter a 2-digit number: ");
scanf("%d", snumber);

while(number > 0)

int lastnum = number % 10;

answer = answer * 10 + lastnum;
number = number / 10;

printf("The reversed number is %d\n", answer);

return 0;
}
```

```
■ "C\User\Toshba\Document\\U00e4\rightgright\text{project.ber}\\
Enter a 2-digit number: 21
The reversed number is 12
Process returned 0 (0x0) execution time: 3.915 s
Press any key to continue.
```

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

```
int main()
int main()

int main()

int main()

int main()

int number, answer = 0;

printf("Enter a 3-digit number: ");
scanf("%d", &number);

while(number > 0)

int lastnum = number % 10;

answer = answer * 10 + lastnum;

number = number / 10;

printf("The reversed number is %d\n", answer);

return 0;

return 0;

"CAUSera Toshiba Documents first project bin Debug first project.exe"
inter a 3-digit number: 123
The reversed number is 321

Process returned 0 (0x8) execution time: 2.344 s

Press any key to continue.
```

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 \mid | ++j < k);
1 #include <stdio.h>
      int main(void)
         int i = 3, j = 4, k = 5;
         printf("%d", i < j || ++j < k);
  ocess returned \theta (\theta x \theta) execution time : \theta.047 s any key to continue.
b. i = 7; j = 8; k = 9; printf("%d", i
     -7 \&\& j++ < k);
1 #include <stdio.h>
     int main(void)
        int i = 7, j = 8, k = 9;
        printf("%d",i - 7 && j++ < k);
         return 0;
  ocess returned 0 (0x0) execution time : 0.047 sess any key to continue.
c. i = 7; j = 8; k = 9;
     %d %d", i, j, k);
1 #include <stdio.h>
2
      int main (void)
        int i = 7, j = 8, k = 9;
      printf("%d", (i = j) || (j == k));
printf("%d %d %d", i, j, k);
         return 0;
 18 8 9
Process returned 0 (0x0) execution time : 0.047 s
Press any key to continue.
```

d. i = j = k = 1;

```
printf("%d", ++i || ++j && ++k); printf("%d
%d %d", i, j, k);
```

```
#include <stdio.h>
int main(void)

int i = j = k = 1;

printf("%d", ++i || ++j && ++k);
printf("%d %d %d", i, j, k);

return 0;
}
```

