Solution to Exercises in L#8

What is the result of:

- 2/3
- 2.0/3
- 2.0/3.0

1st one assigned to an int: 0
2nd one assigned to a float: 0.666667
3rd one assigned to a float: 0.666667

- What is the result of 2/5 and 2%5?
- What is the result of 5/2 and 5%2?

2/5 evaluates to 0
2%5 evaluates to 2
5/2 evaluates to 2
5%2 evaluates to 1

- What is the result of? (Assume int x =3)
 - x *= 2; → 6 x /= 4; → 0 x % = 4; → 3x += 9; → 12

What is the output of the printf()?

- int b;
- b =20;

printf("value of b: %2d\n", b); \rightarrow 20 printf("value of b++: %2d\n", b++); \rightarrow 20 printf("value of b: %2d\n", b); \rightarrow 21

What is the output of printf()?

int b;

b = 20;

printf(" value of b: $%2d\ln$ ", b); $\rightarrow 20$ printf("value of ++b: $%2d\ln$ ", ++b); $\rightarrow 21$ printf("value of b : $%2d\ln$ ", b); $\rightarrow 21$

What is the output of the printf()?

int b;

b =7;

printf("value of +b: %d\n", +b); \rightarrow 7 printf("value of -b: %2d\n", -b); \rightarrow -7 printf("value of b: %2d\n", b); \rightarrow 7

Solution to Review Questions on Slide 40

 What is the output of each printf() statement in the program?

```
#include <stdio.h>
void main(void)
 int a=3:
 int b=7;
 float c=6.0:
 printf("%d\n", a/b); \rightarrow 0
 printf("%f\n", a/c); →0.500000
 printf("%d\n", b/a); \rightarrow 2
 printf("%f\n", c/a); →2.000000
 printf("%d\n", a%b+a); \rightarrow 6
 printf("%f\n", a%c); \rightarrow compilation error!
 printf("%d\n", b%a); →1
 b=a++; \rightarrow b=a; a=a+1;
 printf("%d\n", b); \rightarrow3
 printf("%d\n", a); \rightarrow4
 printf("%d\n", a--);→4
```