

Solution to Exercises in L#20

Solution to Exercise (1) on Slide 7

- Find errors, if any, in the following statement:

```
scanf("myfile", "%4d %6d", week, year);
```

```
fscanf(myfile, "%4d %6d", &week, &year);
```

Solution to Exercise (2) on Slide 13

- Find errors, if any, in the following statement:

```
printf(*myfile, "week=%4d\n year= %6d", &week, &year);
```

```
fprintf(myfile, "week=%4d\n year= %6d", week, year);
```

```

#include "stdio.h"
void main(void)
{
    int i = 10;
    float j = 3.14;
    int a = 20;
    int ii;
    float jj;
    int aa;
    FILE *fp;

    //fp = fopen("xing_file2.txt","w");
    fopen_s(&fp, "xing_file2.txt", "w");
    fprintf(fp, "%d\n%4.2f %d \n", i, j, a);
    fclose(fp);

    //fp = fopen("xing_file2.txt", "r");
    fopen_s(&fp, "xing_file2.txt", "r");
    //fscanf(fp, "%d%f%d", &ii, &jj, &aa);
    fscanf_s(fp, "%d%f%d", &ii, &jj, &aa);
    fclose(fp);

    printf("%d\n%4.2f\n%d\n", ii, jj, aa);
}

```

Solution to Exercise (3) on Slide 18 – Simplified Version

Solution to Exercise (3) on Slide 18 with error detection statements in yellow

```
#include "stdio.h"
void main(void)
{
int i = 10;
float j = 3.14;
int a = 20;
int ii;
float jj;
int aa;
FILE *fp;

//fp = fopen("xing_file2.txt","w");
fopen_s(&fp,"xing_file2.txt", "w");

if (!fp)
{
printf("Error! Could not open file for
writing\n");
}

fprintf(fp, "%d\n%4.2f %d", i, j, a);
```

```
if (fclose(fp) == EOF)
{
printf("Error. Could not close file");
}

//fp = fopen("xing_file2.txt", "r");
fopen_s(&fp, "xing_file2.txt", "r");

if (!fp)
{
printf("Error! Could not open file for
reading!\n");
}

//fscanf(fp, "%d%f%d", &ii, &jj, &aa);
fscanf_s(fp, "%d%f%d", &ii, &jj, &aa);
fclose(fp);

printf("%d\n%4.2f\n%d\n",ii,jj,aa);
}
```

Solution 1 for Problem on Slide 29: using scanf()

```
#include "stdio.h"
int main(void)
{
    int k=1; //counter variable
    int a;
    int sum = 0;
    printf("Please enter 3 numbers to add.\n");
    while (k<=3)
    {
        scanf_s("%d", &a);
        sum = sum + a;
        k++;
    }
    printf("The sum is % d\n", sum);
    return 0;
}
```

```

#include "stdio.h"
void add(int *s, int n);
int main(void)
{
int a;
int k = 1; // counter variable
int sum = 0;

printf("Please enter numbers to add.\n");

while (k<=3)
{
scanf_s("%d", &a);
add(&sum, a);
k++;
}

printf("The sum result is %d\n", sum);
return 0;
}

void add(int *s, int n)
{
*s = *s + n;
}

```

Solution 2 for
Problem on Slide
30:
using scanf, a
function, and
pass by
reference