

Solution to Exercises in L#12

Solution to Exercises on Slide 9

- Try the following inputs:
 - A: This is an excellent stock
 - a: The stock rating you entered does not match our records
 - B: This is an OK stock
 - C: This is not a good stock
 - E: The stock rating you entered does not match our records

- Remove all the *break*; and see what happens.

When A is input, then all the four printf are executed; when B is input, the first printf is skipped, the last three are executed;...

- Remove the *default* case and see what happens.

When A, B, or C is input, then the output is the same as in part 1 (normal); if a or E is input, nothing will be output.

Solution to Exercise on Slide 14

```
if(score >= 90)
    grade = 'A';
else if(score >= 80)
    grade = 'B';
else if(score >= 70)
    grade = 'C';
else if(score >= 60)
    grade = 'D';
else
    grade = 'F';
```

Note: this is not a complete program!

```

#include <stdio.h>
void main(void)
{
    float score;
    char grade;
    printf("Enter the score:\n");
    scanf_s("%f", &score);

    if (score >= 90)
        grade = 'A';
    else if (score >= 80)
        grade = 'B';
    else if (score >= 70)
        grade = 'C';
    else if (score >= 60)
        grade = 'D';
    else
        grade = 'F';

    printf("Your letter grade is %c", grade);
}

```

Note: this is a complete program for Slide 14 exercise!

Solution to Exercise on Slide 15

- Recode the score-to-grade conversion problem using the *switch* statement

Note: this is not a complete program!

```
temp = score/10;
switch (temp)
{
    case 10:    grade = 'A';
               break;
    case 9:     grade = 'A';
               break;
    case 8:     grade = 'B';
               break;
    case 7:     grade = 'C';
               break;
    case 6:     grade = 'D';
               break;
    default:    grade = 'F';
}

```

```
#include <stdio.h>
void main(void)
{
    float score;
    int temp;
    char grade;
    printf("Enter the score:\n");
    scanf_s("%f", &score);

    temp = score / 10;

    switch (temp)
    {
        case 10:
            grade = 'A';
            break;
        case 9:
            grade = 'A';
            break;
        case 8:
            grade = 'B';
            break;
        case 7:
            grade = 'C';
            break;
        case 6:
            grade = 'D';
            break;
        default:
            grade = 'F';
    }
    printf("Your letter grade is %c", grade);
}
```

Note: this is a
complete program!