

## Homework #2

### Turn In:

1. Exercise #1 – Due on **Friday, June 26, 2020 at 11:00pm**

- a) For each exercise, a package must be generated to include the following items:
- Copy of your source file (C program)—your source file **MUST BE NAMED** as **cis6Summer2020YourNameHw2Ex1.c**
  - Copy of output (copy and paste to the end of your program as **PROGRAM\_OUTPUT** comment block)
  - Copy of **YOUR\_Logic Issues\_Code Issues, Output Issues\_COMMENTS** (as a separate comment block) after the PROGRAM\_OUTPUT.
- b) Emailing each package as follows,
- One email message for each exercise.
  - The SUBJECT line of the message should have the following line:

**cis6Summer2020YourNameHw2Ex1.c**

- Attaching the source file that was created in part a).

3. Q.E.D.

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## 1. Fun Exercises

### Fun Exercise 1

What would be the output of the following program?

```
/**
 * Program Name: cis6Hw2FunEx1.c
 * Discussion:   Formatted Outputs
 */
#include <stdio.h>

int main() {
    char cVar;
    int iVar;
    double dVar;

    printf("12345678901234567890\n");

    printf("%d%c%f\n", 23, 'z', 4.1);
    printf("%c%d%f\n", 23, 'z', 4.1);
    printf("%c%d%f\n", 'z', 23, 4.1);
    printf("%c%f%d\n", 'z', 4.1, 23);

    printf("\n");
    cVar = 'z';
    iVar = 23;
    dVar = 4.1;

    printf("%d%c%f\n", iVar, cVar, dVar);
    printf("%c%d%f\n", iVar, cVar, dVar);
    printf("%c%d%f\n", cVar, iVar, dVar);
    printf("%c%f%d\n", cVar, dVar, iVar);

    return 0;
}
```

### OUTPUT

### Fun Exercise 2

What is the output of the program below?

```
/**
 * Program Name: cis6Hw21FunEx2.c
 * Discussion:   Formatted Outputs with WIDTH Option
 */
#include <stdio.h>

int main() {
    char cVar;
    int iVar;
    double dVar;

    printf("1234567890123456789012345678901234567890\n");

    printf("%8d%8c%10f\n", 23, 'z', 4.1);

    printf("\n");

    cVar = 'z';
    iVar = 23;
```

```
dVar = 4.1;

printf("%8c%08d%10.4f\n", cVar, iVar, dVar);

printf("%-8d%8c\t%10f\n", iVar, cVar, dVar);

return 0;
}
```

### **OUTPUT**

## 2. Exercise Assignment

### Exercise 1 – Due Friday, June 26, 2020 at 11:00pm

You are to use variables declared as in the above **Fun Exercises #1 & #2** while working this exercise.

You need to assign correct values (e.g., using the values as shown in the fun exercises) to the variables before sending (printing) the results out to screen.

Write a C program that will print the following lines,

```

Class Information --
  CIS 6 - Introduction to Programming (C)
  Laney College

Assignment Information --
  Assignment Number:  Homework 2
                        Exercise #1
  Written by:         YourName
  Due Date:           Due Date

1234567890123456789012345678901234567890
    23          z  4.100000
    ⚡          122 4.100000
    z          23  4.100000
    z  4.100000      23

    23          z  4.100000
    ⚡          122 4.100000
    z00000023      4.1000
    z0000004.10      23
23          z          4.100000
⚡          122  4.100000
z          00000023      4.1000
z          0000004.10      23
    
```

In the above output –

- You need to replace “**YourName (or Your Name)**” with your First Name (in full) and your Last Name (No Spaces in filename).
- You should be careful about the placement and format (spacing, indentations and characters) of your program output.
- Your program output should be EXACT as given.

Save the program as **cis6Summer2020YourNameHw2Ex1.c**.