Github link: https://github.com/jarenmatthew/CMSC-21/tree/main/3rd%20Long%20Exam

Part 1

1. False
2. False
3. True
4. True
5. False

Part 2

1.

```c
// ====== PART 2 NUMBER 1 ======

#include <stdio.h>
struct employee{
    char ename[10];
    int sal;
};
main(){
    struct employee emp[5];
    int i,j,n;
    printf("Enter number of employees:");
    scanf("%d",&n);

    for (i=0; i<n; i++){
        printf("\nEnter %dst employee record\n", i+1);
        printf("\nEmployee name\t");
        scanf("%s",&emp[i].ename);
        printf("\nEnter employee salary\t");
        scanf("%d",&emp[i].sal);
    }
    printf("\nDisplaying Employee record\n");
    for (i=0; i<n; i++){
        printf("\nEmployee name is %s",emp[i].ename);
        printf("\nSalary is %d",emp[i].sal);
    }
}
```

2.

```c
// ====== PART 2 NUMBER 2 ======

#include <stdio.h>
struct fraction{
    int num;
    int deno;
};
//body of function sum
struct fraction sum(struct fraction f1, struct fraction f2){
    int numerator, denominator;
    numerator = (f1.num * f2.deno) + (f2.num * f1.deno);
    denominator = f1.deno * f2.deno;
    struct fraction result = {numerator, denominator};
    return result;
};
int main(){
    int num1, deno1, num2, deno2;
    printf("Fraction 1 numerator & denominator:");
    scanf("%d%d",&num1,&deno1);
    printf("Fraction 2 numerator & denominator:");
    scanf("%d%d",&num2, &deno2);
    //initialize the values of the structure
    struct fraction f1 = {num1, deno1};
    struct fraction f2 = {num2, deno2};
    struct fraction result = sum(f1,f2);
    printf("Result = %d/%d", result.num, result.deno);
    return 0;
}
```

Survey/Bonus

1. I think that the modules were good. They were easy to understand and the examples included were also good, but I think that there should more example codes that are a little more advanced so we could learn and compare it with future codes or assignments. Another thing I would like is if there were feedback from our assignments so that we could see our mistakes and the area of improvement.

2. I think maybe a few tips about the topic and when writing code could help. Also, in my opinion, I think that more modules and assignments should be posted earlier even though the topic in that module isn't part of that week's lesson. Because there was a time when I was free and wanted to study and do other assignments in advance but there were no more modules to study and when the modules and assignments were posted on the actual date they were supposed to be posted, it just felt like I couldn't study or focus my time on them since assignments or exams from other subjects are also piling up.

3. C is a very “awat” language and is more difficult compared to Python so just like always study diligently.

4. At one time, I just didn’t feel like studying C because it is different from Python and is very tiring. So, I wish that I didn’t lose focus and just kept studying since me not studying only gave me a hard time before.