CCA - 1 Retest - Div C
9 Nov 2022
ANSWER ALL 4 QUESTIONS

Q 1 - Write down the result of the following Bit-wise Operations -
- `0xF0 & 0x0F`
- `0x00 ^ 0x0F`
- `0x33 | 0xCC`

Q 2 - Given -
```
    int age = 26;
    int gradesObtained[5] = {15, 19, 10, 16, 4};   //each element is marks obtained out of 20
```

Write a code snippet that executes **ONLY IF age is equal to or more than 18**
a) iterates over all the <u>gradesObtained</u> elements and convert each array element to **out of 100 marks**
b) Iteate over the whole array again and printf each element that is now converted to out of 100

Q 3 - Given the following C declaration -
```
        int tripDays[5] = {10, 7, 5, 45, 19};
```

A. What is the length of the array?
B. What's the size of the array in memory?
C. Write a **C statement that stores an address of the 3rd array element into a suitable variable type.**

Q 4 - Explain in 6-8 lines-

"Function parameters and local variables inside the function are "local" in scope. These variables are accessible only within the function and are not accessible when the function exection returns to the caller function".

A. Write a **suitable example C code and a diagram** to illustrate your answer.