

Questions

Write C and java code.

- Write a program that would change every alternate 1 to 0 in a binary string given as input to a function.

```
int len = s.length(), flag = 0;
for(char c: s){
    if(c=='1'){
        if(flag){
            c='0';
            flag = 0;
        }
        else{
            flag = 1;
        }
    }
}
```

- Write a program where we need to store data pertaining to students in an array. Each student will have id int, name character string, cpag float as attributes.
 - We should have a function/method addStudent() that takes the above three values as args and create a student entity and add to an array that stores the student entities. Method/Function printStudents() must print the details of each student available in the array. Array may be defined to hold max 5 students.

```
int count = 0;
struct Student{
    char name[50],
    int id,
    float cgpa
} s[5];
int studentArray[1000000000];
void addStudent(int id, char name[], float cgpa){
    s[count].id = id;
    strcpy(s[count].name = name;
    s[count].cgpa = cgpa;
    count++;
}
void printStudent(){
    int i = count;
    while(i--){
        printf("%d %s %.1f",s[i].id,s[i].name,s[i].cgpa);
    }
}
```

```
class Student{
    int id;
    String name;
    float cgpa;
    Student(int i, String name, float cg){
        id=i;name=n;cgpa = cg;
    }

    class StudentDemo
    {
        public static void main()
        {
            Student student = new Student[5];
            // add studs
        }
        static Student addStudent(int id, String name, float cg){
            return new Student(id, name, cg);
        }
        static void printStudent(Student s[]){
            for(int c = 0; c < s.length;c++){
                // print shit
            }
        }
    }
}
```