Question 1

Define an array of numbers (use any random numbers). Write a program in to print only the even numbers of the array. Do not use any library functions, need to do via for loops only

Ans **: #include <stdio.h>**

**int main()**

**{**

**int array[5] ={1,2,3,4,5};**

**int i;**

**printf("even number");**

**for(i=0; i<4; i++)**

**{**

**if(array[i]%2==0)**

**{**

**printf("%d\t",array[i]);**

**}**

**}**

**return 0;**

**}**

# Question 2

Find the maximum consecutive 1's in an array of 0's and 1's.

Example:

a) 00110001001110 - Output :3 [Max num of consecutive 1's is 3]

b) 1000010001 - Output :1 [Max num of consecutive 1's is 1]

Ans**: #include <iostream>**

**using namespace std;**

**int getMaxLength(bool arr[], int n)**

**{**

**int count = 0;**

**int result = 0;**

**for (int i = 0; i < n; i++)**

**{**

**if (arr[i] == 0)**

**count = 0;**

**else**

**{**

**count++;**

**result = max(result, count);**

**}**

**}**

**return result;**

**}**

**int main()**

**{**

**bool arr[] = {1, 1, 0, 0, 1, 0, 1, 0,1, 1, 1, 1};**

**int n = sizeof(arr)/sizeof(arr[0]);**

**cout << getMaxLength(arr, n) << endl;**

**return 0;**

**}**

# Question 3

Suppose you have an array of 101 integers. This array is already sorted and all numbers in this array are consecutive. Each number only occurs once in the array except one number which occurs twice. Write a js code to find the repeated number.

e.g $arr = array(0,1,2,3,4,5,6,7,7,8,9,10...................);

Ans:

**<!DOCTYPE html>**

**<html>**

**<script>**

**var arr =[1,2,3,2,1,3,3,2];**

**var count=0;**

**for(var i=0; i<arr.length; i++)**

**{**

**for(var j=i+1; j<arr.length; j++){**

**if(arr[i] == arr[j]){**

**count++;**

**break;**

**}**

**}**

**}**

**console.log("duplicate elemnet::"+count);**

**</script>**

**<body></body>**

**</html>**

# Question 4

Let’s see we an api url [www.example.com/api/get/1](http://www.example.com/api/get/1)

Write a sample code to call this url via ajax and print its response

Ans:

**$.get({**

**url: "http://url.com/predict",**

**success: function(data) {**

**console.log(data)**

**}**

**})**

# Question 5

Assume there is a json object of this format

var obj = {

 “id” : 4, “name” : “abc”,

 “id” : 10, “name” : “ab2”,

 “id” : 5, “name” : “abc3”,

 “id” : 6, “name” : “abc5”

}

Write a code to sort the object by id

I.e final output should have objected sort by id’s

Ans**: json.sort(function(a,b){**

**Return a.id-b.id;**

**});**