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/*Lab Assignment-1 15-02-2021 Tathagata Ghosh*/

/*Q5. Write a C program to test for odd or even of an integer by the following
two methods: (i)
division and (ii) bit testing. The integer has to be taken as input from the console.*/
#include<stdio.h>
#include<math.h>

/*
int int_to_bin(int n, int i)
{
    if( n == 0 )
    {
        return 0;
    }
    return int_to_bin( n / 2, i * 10 ) + ( n % 2 ) * i ;
}
*/
int main()
{
    int n,ch;//int bin
    printf("Enter your choice '1' or '2' and the number consecutively :");
    scanf("%d %d", &ch , &n );
    switch (ch)
    {
        case 1:
            if( ( 2 * ( n / 2 ) ) == n )
                printf("%d is even.\n",n);
            else
                printf("%d is odd.\n",n);
            break;
        case 2:
            if(n&1)
                printf("%d is odd.\n",n);
            else
                printf("%d is even.\n",n);
            /*
            bin = int_to_bin(n,1);
            if( ( bin % 10 ) == 0 )
                printf("%d is even.\n",n);
            else
                printf("%d is odd.\n",n);
            */
            break;
        default:
            printf("Invalid Input");
            break;
    }
}

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}  
    return 0;  
}
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OUTPUT:

Enter your choice '1' or '2' and the number consecutively :1 96

96 is even.

Enter your choice '1' or '2' and the number consecutively :2 69

69 is odd.