**Javascript Assignment 4**

This assignment will help you interpret mathematical relationships both algebraically and geometrically.

Create a function that takes a number (step) as an argument and returns the number of matchsticks in that step. See step 1, 2 and 3 in the image above.

Take input from the user in the function parameter and return the output

using the return statement.

examples-

matchHouses(1) ➞ 6

matchHouses(4) ➞ 21

matchHouses(87) ➞ 436

function matchHouse(step) {

    if(step == 1) {

        return 6;

    }

    else {

        return (6 \* step) - (step -1);

    }

}

const prompt = require("prompt-sync")({sigint : true});

let step = prompt('Enter the number of steps :');

console.log(`Entered steps : ${step}`);

let a = matchHouse(step);

console.log(`matchsticks needed for ${step} step house is ${a}`);

**Ouput:**

Enter the number of steps :4

Entered steps : 4

matchsticks needed for 4 step house is 21

Enter the number of steps :87

Entered steps : 87

matchsticks needed for 87 step house is 436

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node matchstick

Enter the number of steps :1

Entered steps : 1

matchsticks needed for 1 step house is 6

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node matchstick

Enter the number of steps :43

Entered steps : 43

matchsticks needed for 43 step house is 216