Problem 5. Triangle Numbers

Triangle numbers are the sums of successive integers. So 6 is a triangle number because

Example:

```
% 6 = 1 + 2 + 3
```

which can be displayed in a triangular shape like so

Thus 6 = triangle(3). Given n, return t, the triangular number for n.

Example:

```
% Input n = 4
% Output t is 10
```

Scratch Pad

```
n = 4
n = 4
triangle(n)
```

ans = 10

Solution

```
function t = triangle(n)
    t = n * (n + 1) / 2;
end
```