4.3 Reverse Bits

Reverse bits of a given 32 bits unsigned integer (LeetCode)

```
Vef reverse (n):

Nexut = 0

pos = 31 # for 32 bits

While n:

result += (n&1) << pos

n = n >> 1

pos -= 1

Veturn result
```

- . Iterate through the bot string of the input integer, from right to leff (i.e. n= n>>1). To vetrieve the right-most bot of an integer, we apply but AND operation (n&1)
- · For each bit, We reverse it to the correct position

 Ci.e (n&1) << power)

 then we accumulate this reversed bit to the result variable

OCI) True Complexity -> since the imput is the integer of fixed-size (32bits)

OCI) space Complexity