Even or odd:

To determine whether a number is even or odd, it is divided by 2. If the remainder obtained after division is 0, then the number is referred to as an even number. On the other hand, when the remainder is not equal to zero, then the number is called an odd number.

In this python program we ask the user to input an integer. We are receiving the value into a variable “num”.

Then we divide the number by 2. The conditional statement is that if the remainder of the division is equal to 0, the number dividable by 2 and therefore, even; otherwise, it is odd.

To calculate the remainder of the division we use the modulus (mod) operator. what (num % 2) does is that it divides the number by 2 and calculates the remainder.

Then, after determining whether the number is even or odd the program will print out the result.

If the number input by the user (num) is even the program will display “the number is even” and if it is odd the program will display “the number is odd”.