Algorithm

1. Start
2. Read number, store in num.
3. Compute (= num / 2), store in temp.
4. Compute (= temp * 2), store again back into temp.
5. If temp == num, go to step 6. Otherwise, go to step 8.
6. Display "It is an even number."
7. Go to step 9.
8. Display "It is an odd number."
9. Stop.

Flowchart