Date: _____

Problem 2 : Even or odd

understood : Take a number and output if its even or odd. But we have to be careful of negative number and zero.

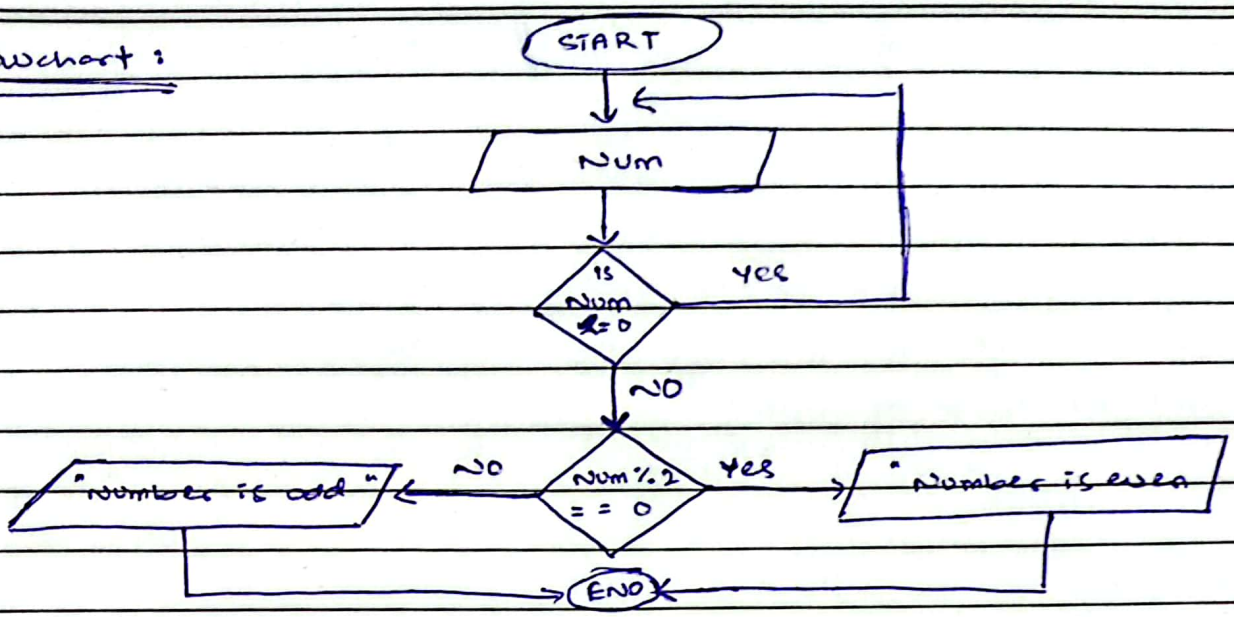
solution: For even the remainder after dividing by 2 is zero and if there is a remainder its odd.

Pseudocode :

```
START
    WHILE TRUE DO
        OUTPUT " Enter a number "
        INPUT Num
        IF Num <= 0
          THEN OUTPUT " Invalid input : Enter a positive number greater
          than zero ".
          continue
        ENDIF
        IF Num MOD 2 == 0 THEN
            OUTPUT " Number is even "
            ELSE
                OUTPUT " Number is odd "
        ENDIF
    END WHILE
END
```

Date: _____

Flowchart :



IPO chart :

Input	Processing	Output
• User inputs a number	• Ask the user continuously to enter a number greater than zero.	• Error message
	• check if the number is positive	• "invalid input" if number is not within required range.
	• use MOD function to check if number leaves a remainder after being divided by 2	• "The number is even" or "The number is odd" (depending upon the MOD result).