# PROBLEM #02

## PSEUDOCODE:

```
Start
Declare number as integer
Output "Enter a number"
Input number
if   number > 0
Then
    if number % 2 == 0
    Then
            Output "Number is even"
        Else
            Output "Number is odd"
    Else
        Output "Invalid number"
End
```
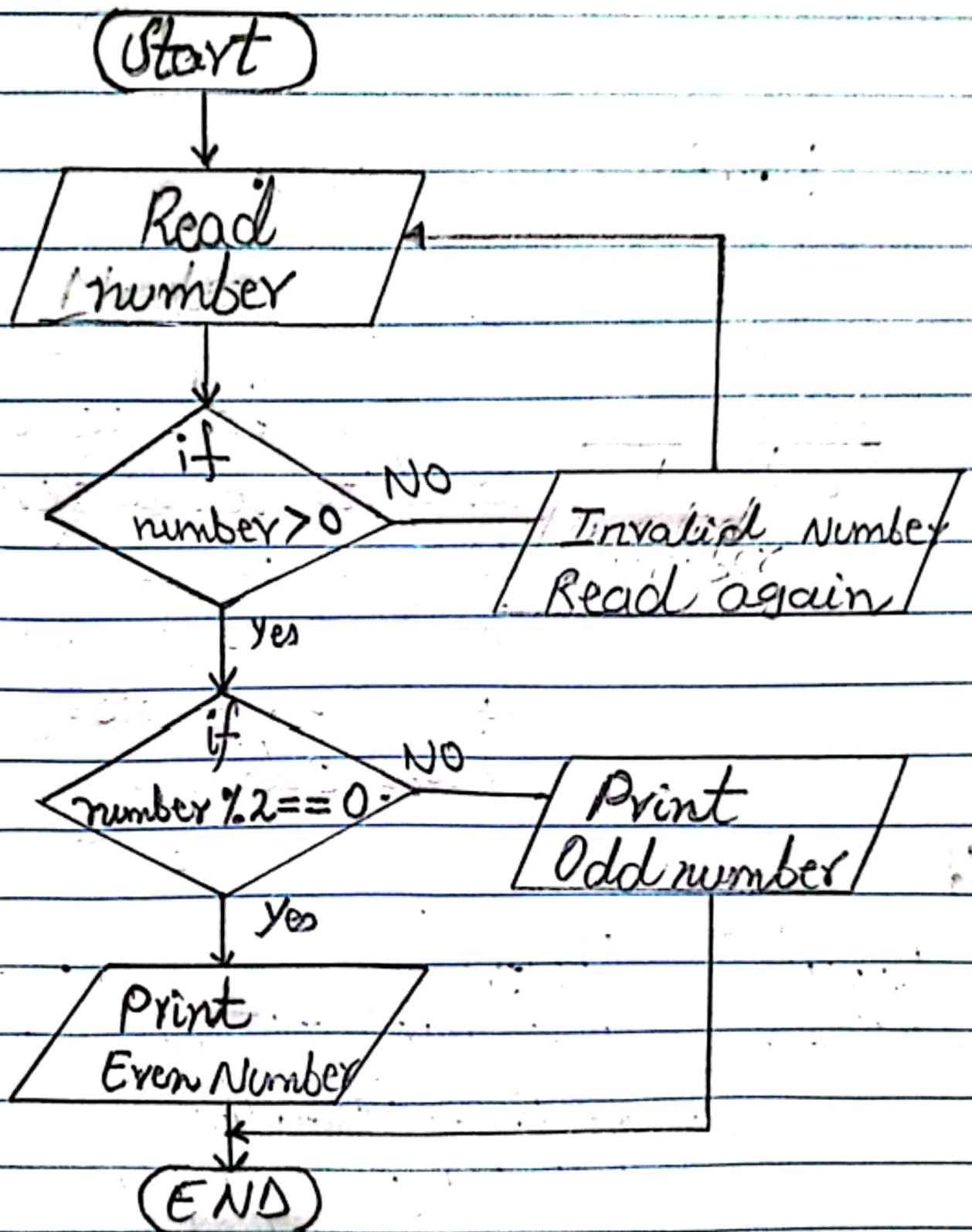
```
                    ( Start )
                        │
                        ▼
            ┌───────────────────────┐
           /       Read             /
          /       number           /
         └────────────────────────┘ ◄──────────────┐
                        │                           │
                        ▼                           │
                      ╱ if ╲            NO          │
                    ╱ number > 0 ╲ ──────────►  ┌──────────────────┐
                     ╲         ╱               / Invalid Number   /
                      ╲     ╱                 / Read again       /
                        │                     └──────────────────┘
                       Yes
                        ▼
                     ╱ if ╲              NO
                   ╱ number % 2 == 0 ╲ ──────────►  ┌──────────────┐
                    ╲              ╱               / Print        /
                     ╲          ╱                 / Odd number   /
                        │                         └──────────────┘
                       Yes                              │
                        ▼                               │
            ┌───────────────────────┐                  │
           /   Print                /                  │
          /   Even Number          /                   │
         └────────────────────────┘                    │
                        ▼  ◄────────────────────────────┘
                    ( END )
```

| Input | Proces | Output |
|---|---|---|
| number as integer | number must be greater than zero and its remainder is zero when divided by 2 then number is even, if not than odd | even or odd |