Date:

Q11:- Coprime.

IPO

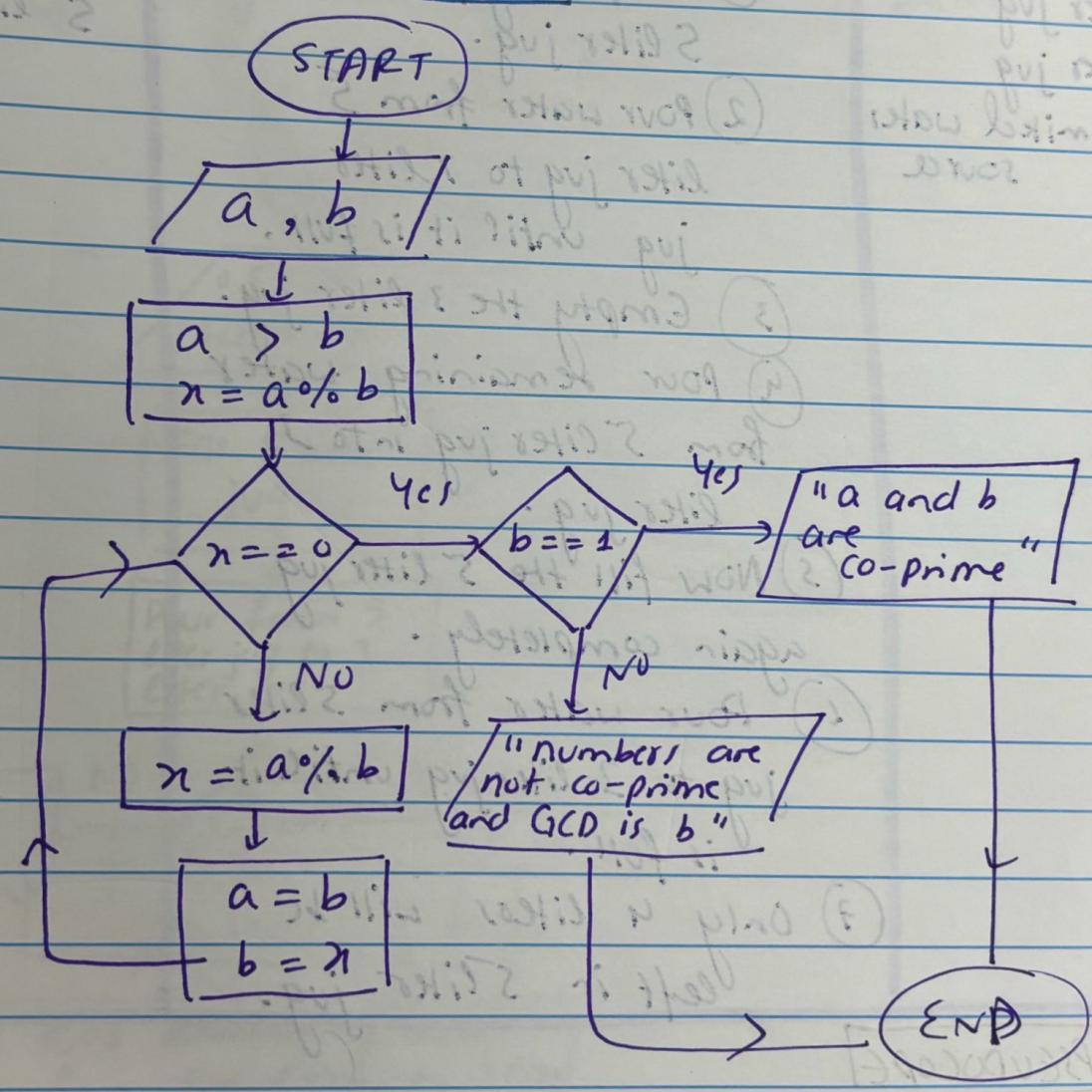
| Input | Process | Output |
|---|---|---|
| ① Take two whole numbers 'a' & 'b'. | ① Use Euclidean Theorem to calculate GCD of 'a' and 'b'.<br>② If GCD = 1, 'a' and 'b' are coprime.<br>③ If GCD > 1, 'a' and 'b' are not co-prime. | ① 'a' and 'b' are coprime.<br>② 'a' and 'b' are not co-prime. |

PSEUDOCODE

```
START
    INPUT a.
    INPUT b.
While b != 0 THEN
        x = a % b
IF  x == 0  THEN
        IF  b == 1
 PRINT "'a' and 'b' are co-prime."
ELSE
   PRINT "'a' and 'b' are not co-prime and
                GCD is b."
        END IF
ELSE
        a = b
        b = x

END
```

# FLOWCHART




Loop