

Algorithm:

Start

Input a number num from the user.

If num is less than 2, print "Not a Prime Number" and go to step 8.

Initialize is_prime = True.

Loop from i = 2 to sqrt(num):

- If num is divisible by i, set is_prime = False and exit the loop.

If is_prime is True, print "num is a Prime Number".

Else, print "num is NOT a Prime Number".

End

PSEUDOCODE:

BEGIN

DISPLAY "Enter a number:"

INPUT num

IF num < 2 THEN

DISPLAY "Not a Prime Number"

EXIT

SET is_prime = True

FOR i FROM 2 TO sqrt(num) DO

IF num MOD i = 0 THEN

SET is_prime = False

BREAK

ENDIF

END FOR

IF is_prime = True THEN

 DISPLAY num, "is a Prime Number"

ELSE

 DISPLAY num, "is NOT a Prime Number"

ENDIF

END

FLOWCHART: