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Question 1

Using a simple if statement write a pseudocode to describe the Euclidean algorithm

Answer

The Euclidean algorithm is used to find the greatest common divisor of two positive integers

Using x and y as positive integers

Find the GCD (22,64) using pseudocode

Begin

Input Integer: 22 and 64

Output of the GCD, g of x and y

If

x & y, exchange as ("x/y")

Begin

Print Num

The remainder is declared as r=%d

Else if

Begin

Print Num

r>0 then r is to replace the value of "y" and then the value of "x" is represented as "b" then perform the first if statement;

Else if

Begin

Print Num

r=0 the operation stops and retrieves the value of "r" as the highest common factor $% \left(r\right) =\left(r\right) ^{2}$

End

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