

STUDENT REPORT

DETAILS

Name

T G MANIKANTA

Roll Number

TEMPBTech-CSE082

EXPERIMENT

Title

REDUCE TILL ZERO

Description

Dev loves the number zero. Dev gives Andrew two integers X and Y and asks him to perform the steps below on X and Y. until the value of Y has been reduced to zero. The below steps should be followed sequentially:

1. If $X < Y$, then swap values of X and Y.
2. If $Y = 0$. then return X
3. Otherwise, let $T = X - Y$.
4. Set $X = Y$ and then set $Y = T$
5. Repeat from step 1.

Your task is to help Andrew find and return an integer value, representing the value of X, when the value of Y has been reduced to zero.

Note: At least one of the X or Y will be a non-zero integer

Input Specification:

input1: An integer value X. representing the first number.

Input2: An integer value Y, representing the second number

Sample input:

48

18

Sample Output:

6

Source Code:

```
x = int(input())
y = int(input())

while y != 0:
    if x > y:
        x -= y
    else:
        y -= x

print(x) # This will print the GCD of x and y
```

RESULT

EMPB

CSE

TEM

082
ch-C

PBT
22 TE

SF08
tech