1.

import math

def **Log2**(x):

return (math.log10(x) / math.log10(2));

def **isPowerOfTwo**(n):

return (math.ceil(Log2(n)) == math.floor(Log2(n)));

if(isPowerOfTwo(4)):

print(*"Yes"*);

else:

print(*"No"*);



2.

a = float(input(*" Please Enter the First Value a: "*))

b = float(input(*" Please Enter the Second Value b: "*))

i = 1

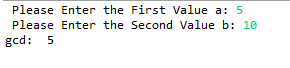
while(i <= a and i <= b):

if(a % i == 0 and b % i == 0):

gcd = i

i = i + 1

print(*"gcd: "*, gcd)



3.

def **gcd**(x, y):

while(y):

x, y = y, x % y

return x

def **lcm**(x, y):

lcm = (x\*y)//gcd(x,y)

return lcm

num1 = 54

num2 = 24

print(*"The L.C.M. is"*, lcm(num1, num2))



4.

def **Prod**(n):

pr = 1

while (n != 0):

pr = pr \* (n % 10)

n = n // 10

return pr

n = 4513

print(Prod(n))



5.

def **reverse**(s):

return s[::-1]

def **isPalindrome**(s):

rev = reverse(s)

if (s == rev):

return True

return False

s = input(*"ENTER THE DIGIT :"*)

ans = isPalindrome(s)

if ans == 1:

print(*"PALINDROME"*)

else:

print(*"NoT PALINDROME"*)



6.

num = int(input(*"Enter a number: "*))

sum = 0

temp = num

while temp > 0:

digit = temp % 10

sum += digit \*\* 3

temp //= 10

if num == sum:

print(num,*"is an Armstrong number"*)

else:

print(num,*"is not an Armstrong number"*)



7.

X = [[1,2,3],

[4 ,5,6],

[7 ,8,9]]

Y = [[9,8,7],

[6,5,4],

[3,2,1]]

res = [[0,0,0],

[0,0,0],

[0,0,0]]

for i in range(len(X)):

for j in range(len(X[0])):

res[i][j] = X[i][j] \* Y[i][j]

for r in res:

print(r)



8.

X = [[12,7],

[4 ,5],

[3 ,8]]

result = [[1,2,3],

[4,5,6]]

for i in range(len(X)):

for j in range(len(X[0])):

result[j][i] = X[i][j]

for r in result:

print(r)



9.

def **remove**(string):

return string.replace(*" "*, *""*)

string = *'s a b a r i a n a n d'*

print(remove(string))



10.

def **vowel**(str):

vowels = (*'a'*, *'e'*, *'i'*, *'o'*, *'u'*)

for x in str.lower():

if x in vowels:

str = str.replace(x, *""*)

print(str)

str = *"hi welcome to the python class for kit students"*

vowel(str)

