Exp:4

1.

#GCD of two numbers

def gcd(a, b):

# Everything divides 0

if (a == 0):

return b

if (b == 0):

return a

# base case

if (a == b):

return a

# a is greater

if (a > b):

return gcd(a-b, b)

return gcd(a, b-a)

# Driver program to test above condition

a = 98

b = 56

if(gcd(a, b)):

print('GCD of', a, 'and', b, 'is', gcd(a, b))

else:

print('not found')

#output

GCD of 98 and 56 is 14

2.

#max of two numbers

def maximum(a, b):

if a >= b:

return a

else:

return b

a=int(input("enter the value of a:"))

b=int(input("enter the value of b:"))

print(maximum(a,b))

#output

enter the value of a:5

enter the value of b:6

6

3.

#area and perimeter of triangle

def area(a, b):

return (a \* b)

def perimeter(a, b):

return (2 \* (a + b))

l = float(input("Enter length: "))

b = float(input("Enter breadth: "))

print ("Area = ", area(l, b))

print ("Perimeter = ", perimeter(l, b))

#output

Enter length: 5

Enter breadth: 6

Area = 30.0

Perimeter = 22.0

Common problems:

4.

def name(x,y):

z=x+y

print(z)

first=(input(“Enter first name:Meena:”))

second=(input(“Enter second name:Priya”))

print(first,second)

Output:

Enter first name:Meena

Enter second name:Priya

Meena Priya

5.

#Time to hours

def convertion(hour):

minute=hour\*60

return minute

a=int(input(&amp;quot;enter time in hour:&amp;quot;))

print(convertion(a))

Output:

enter time in hour:9

540