**EXERCISE NO:** 5  **PYTHON PROGRAMS USING FUNCTIONS**

**DATE:** 18.01.2023

**a) Return the full name of the Person (first name, last name) using function**

**PROGRAM:**

def name(f,l):

return(f+l)

firstname=input("Enter the First name:")

lastname=input("Enter the Last name:")

print("Full name:",name(firstname, lastname))

**OUTPUT:**

Enter the First name: Yogitha

Enter the Last name: Ananth

Full name: Yogitha Ananth

**b) Write a python program to convert time hours into minutes**

**PROGRAM:**

def time():

mins=n\*60

print("Time in minutes is=",mins)

n=int(input("Enter the time in hours:"))

time()

**OUTPUT:**

Enter the time in hours:5

Time in minutes is= 300

**c) Calculate GCD of two numbers**

**PROGRAM:**

def gcd(a,b):

if(a>b):

dd=a

ds=b

else:

dd=b

ds=a

while(ds!=0):

r=dd%ds

dd=ds

ds=r

print("The GCD is",dd)

a=int(input("Enter number1:"))

b=int(input("Enter number2:"))

gcd(a,b)

**OUTPUT:**

Enter number1: 35

Enter number2: 76

The GCD is 1

**d) Define a function to find the max of two numbers**

**PROGRAM:**

def maximum(x,y):

if(x>y):

print(x,"is greater")

else:

print(y,"is greater")

x=int(input("Enter number1:"))

y=int(input("Enter number2:"))

maximum(x,y)

**OUTPUT:**

Enter number1: 356

Enter number2: 754

754 is greater

**e) Print the area and perimeter of Triangle using Function**

**PROGRAM:**

def area():

b=int(input("Enter the breadth:"))

h=int(input("Enter the length:"))

return(0.5\*b\*h)

def perimeter():

x=int(input("Enter the first side:"))

y=int(input("Enter the second side:"))

z=int(input("Enter the third side:"))

return(x+y+z)

print("Area of the triangle=",area())

print("Perimeter of the triangle=",perimeter())

**OUTPUT:**

Enter the breadth: 4

Enter the length: 7

Area of the triangle= 14.0

Enter the first side: 65

Enter the second side: 37

Enter the third side: 85

Perimeter of the triangle= 187