Ex 5: Programs using Functions

1. Return the full name of the Person( first name, last name) using function:

PROGRAM:

first\_name=input(&quot;Enter a first name:&quot;)

last\_name=input(&quot;Enter a last name:&quot;)

def name():

c=first\_name+last\_name

return c

a=name()

print(&quot;The Name is&quot;,a)

OUTPUT:

Enter a first name:SAFEERUL

Enter a last name:HASAN

The Name is SAFEERUL HASN

1. CONVERTING HOURS INTO MINUTES

PROGRAM:

time=int(input(&quot;Enter the hours:&quot;))

def minutes():

m=time\*60

return m

a=minutes()

print(&quot;The minutes is&quot;,a)

OUTPUT:

Enter the hours:4

The minutes is 240

1. GCD OF TWO NUMBERS

PROGRAM:

a=int(input(‘enter a number:’)

b=int(input(‘enter another number:’)

def gcd(a, b):

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 function

if(gcd(a, b)):

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

else:

print('not found')

OUTPUT:

enter a number:8

enter another number:6

GCD of 8 and 6 is 2

4. MAXIMUM OF TWO NUMBERS:

PROGRAM:

a=int(input('enter a 1st number :'))

b=int(input('enter a 2nd number:'))

max(a,b)

print('The maximum number is',max(a,b))

OUTPUT:

enter a 1st number :67

enter a 2nd number:89

The maximum number is 89

>>>

5. AREA AND PERIMETER FOR A TRIANGLE:

PROGRAM:

a=float(input('enter first side:'))

b=float(input('enter second side:'))

c=float(input('enter the third side:')

def area(a,b,c):

s=(a+b+c)/2

return s

def perimeter(a,b,c):

g=a+b+c

return g

print('Area of the triangle :',area(a,b,c))

print('Perimeter of the triangle:',perimeter(a,b,c))

OUTPUT:

enter first side:4

enter second side:7

enter third side:6

Area of the triangle:8.5

Perimeter of the triangle:17