EX 5.1

To Find exponent

PROGRAM  
def power(n, e):

if (e == 0):

return 1

elif (e == 1):

return n

else:

return (n\*power(n, e-1))

n = 4

p = 2

print(power(n, p))

OUTPUT :

16

CONVERSION OF KM TO MILES:

PROGRAM:

def kmm(km):

cr= 0.621371

mm = km \* cr

print ("The value in miles ", mm)

km = float (input ("Please enter the value in Kilometre: "))

kmm(km)

OUTPUT:

Please enter the value in Kilometre: 5

The value in miles 3.106855

PERIMETER AND AREA OF CONE:

PROGRAM:

def perimeter(r):

c=2\*3.14\*r

print(" The perimeter is :",c)

def area(r,l):

a=(3.14\*r\*r)+(3.14\*r\*l)

print("The area is:",a)

r=int(input("Enter radius of cone:"))

l=int(input("Enter length of cone:"))

perimeter(r)

area(r,l)

OUTPUT:  
  
Enter radius of cone:3

Enter length of cone:5

The perimeter is : 18.84

The area is: 75.36

CONVERTING TIME IN MINUTES:  
  
PROGRAM:

def convert\_time(hrs, min):

min= hrs \* 60 + min

return min

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

m = int(input("Enter the minutes : "))

m = convert\_time(h,m)

print("Total Minutes =",m)

OUTPUT:

Enter the hours : 2

Enter the minutes : 36

Total Minutes = 156

PRINTING FULL NAME:

PROGRAM:

def fullname(fn,ln):

fun=fn+ln

print("The full name is:",fun)

fn=input("Enter 1st name:")

ln=input("Enter last name:")

fullname(fn,ln)

OUTPUT:

Enter 1st name:Patrick

Enter last name:Bateman

The full name is: PatrickBateman