**EX.NO : 5 PROGRAMS USING FUNCTION**

**1)-TO FIND ENPONENTIAL OF A NUMBER :**

**PROGRAM:**

def power(base,exponent):

result=(base \*\* exponent)

return result

base=int(input("ENTER A BASE NUMBER : "))

exponent=int(input("ENTER A EXPONENT NUMBER : "))

print("EXPONENTIAL VALUE IS : ",power(base,exponent))

**OUTPUT :**

ENTER A BASE NUMBER : 2

ENTER A EXPONENT NUMBER : 16

EXPONENTIAL VALUE IS : 65536

**2)-CONVERSION OF KM TO MILES:**

**PROGRAM:**

def kmm(km):

cr= 0.621371

miles = km \* cr

print ("The value in miles ", miles)

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

kmm(km)

**OUTPUT:**

Enter the value in Kilometre: 5

The value in miles 3.106855

**3)-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

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

**PROGRAM:**

def name(name1,name2):

full\_name=name1+name2

return full\_name

name1=input("Enter first name :")

name2=input("Enter last name :")

fullname=name(name1,name2)

print(fullname)

**OUTPUT:**

Enter first name :VISHVA

Enter last name : BALAJI

VISHVA BALAJI

**5)-Write a python program to convert time Hours into Minutes**

**PROGRAM:**

def time(hours):

minu=hours\*60

return minu

hours=int(input("ENTER THE TIME IN HOUR : "))

minutes=time(hours)

print(minutes,"MINUTES")

**OUTPUT:**

ENTER THE TIME IN HOUR : 1

60 MINUTES