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
```