**PROBLEM SOLVING AND PYTHON PROGRAMMING RECORD**

PYTHON PROGRAMMING USING FUNCTION

**EXERCISE NO:** 5

**DATE:** 18/01/2023

**1] FIND THE EXPONENT OF A NUMBER USING FUNCTION**

**PROGRAM**:

def power(n,p):

if p==0:

return 1

else:

return(n\*\*p)

n= int(input("enter no.:"))

p= int(input("enter no.:"))

print("The exponent of a number is:",power(n,p))

**OUTPUT:**

enter no.:2

enter no.:3

The exponent of a number is: 8

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**2] CONVERT KM TO MILES AND PRINT BOTH THE DATA**

**PROGRAM:**

km= int(input("Enter kilometers:"))

miles= km\*0.621371

print("The conversion of km to miles is:", miles)

print("The kilometer is:",km)

print("The miles is:",miles)

**OUTPUT:**

Enter kilometers:3

The conversion of km to miles is: 1.8641130000000001

The kilometer is: 3

The miles is: 1.8641130000000001

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**3]CALCULATE THE AREA/PERIMETER OF CONE USING FUNCTION**

**PROGRAM:**

def perimeter(r,h):

return 2\*22/7\*r

def area(r,h):

return (22/7\*r\*(r+((h\*\*2+r\*\*2)\*\*0.5)))

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

h= int(input("Enter height:"))

print("The perimeter of cone is:",perimeter(r,h))

print("The area of cone is:",area(r,h))

**OUTPUT:**

Enter radius:5

Enter height:12

The perimeter of cone is: 31.428571428571427

The area of cone is: 282.85714285714283

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**4] RETURN THE FULL NAME OF A PERSON(FIRST NAME,LAST NAME)USING FUNCTION**

**PROGRAM:**

def name():

a = input("enter first name:")

b = input("enter last name:")

fullname= a+b

return fullname

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

**OUTPUT**:

enter first name:Ritika

enter last name:Sachdeva

The full name is: RitikaSachdeva

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**5]WRITE A PYTHON PROGRAM TO CONVERT TIME HOURS INTO MINUTES**

**PROGRAM**:

hours = int(input("Please enter hours:"))

minutes = hours \* 60

print(minutes, " Minutes")

**OUTPUT**:

Please enter hours:3

180 Minutes

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