**ASSIGNMENT 3:**

**Answers**

#Assignment 3 tutedude factorial of a number using function

#Task 1

def factorial(x):

if x==(0 or 1):

return 1

else:

return x\*factorial(x-1)

n=int(input("Enter a number "))

print(f"The factorial of {n} is {factorial(n)}")

’’’

o/p

Enter a number 5

The factorial of 5 is 120

’’’

#Task 2

# square,log and sine values

from math import \*

def Squareroot(x):

return sqrt(x)

def Logbasee(x):

return log(x)

def Sine(x) :

return sin(x)

n=int(input("Enter a number"))

print(f"Square root of the number {n} is {Squareroot(n)}")

print(f"Logarithmic vaue of the number {n} is { Logbasee(n)}")

print(f"Square root of the number {n} is {Sine(n)}")

’’’

o/p

Enter a number25

Square root of the number 25 is 5.0

Logarithmic vaue of the number 25 is 3.2188758248682006

Square root of the number 25 is -0.13235175009777303

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