Practical 1

Aim: Getting started with Python programming language

A. Write a Python program to calculate the hypotenuse of a right angled triangle.

Program/Procedure:

```
# Program A
import math
a = input("Enter the side1 : ")
b = input("Enter the side2 : ")

length = int(a)
width = int(b)

print("The Hypotenuse is : ",math.sqrt(int(a)*int(a) + int(b)*int(b)))
print("The Hypotenuse is : ",math.sqrt(length*length + width*width))
```

Results:

Enter the side1 : 3

Enter the side2 : 4

The Hypotenuse is : 5.0

The Hypotenuse is : 5.0

Conclusion:

In this practical i came to know about how to take values by using the input methods and how to take sqrt values through the math.sqrt method.

Aim:

B. Write a Python program to find factorial of any number defined by user.

Program/Procedure:

```
# Program B
a = int(input("Enter the Number to find the factorial : "))
def factorial(fact,a):
    while a>0 :
     fact = fact * a
     a = a-1
    return fact
fact=1
print("The factorial of a number is : ",factorial(fact,a))
```

Results:

Enter the Number to find the factorial : 5

The factorial of a number is : 120

Conclusion:

In this practical i have came to know about the creation of method by using the ‘def’ keyword and i have learned about how to call the method and how to get the result of a factorial.

Signature:

Date: