**Class XI – COMPUTER SCIENCE**

**PRACTICAL PROBLEMS ( 17-04-2023, Monday)**

EX.NO: 1

Christina wants some computer programs for her brother, Mark.

Christina wants a program to convert Celsius temperature to Fahrenheit. (F = C x 9 / 5 + 32)

Write a program in Python to covert a Celsius temperature entered by the user to Fahrenheit.

EX.NO: 2

Students are collecting data about the amount of water needed to fill different sized paper cones. Their measurements are compared to a calculated volume.

The formula to calculate the volume of a cone is:

**

*• V* is volume

*• π* is the constant Pi

*• r* is the radius of the base of the cone

*• h* is the height of the cone.

Write a program in Python to carry out the calculation.

EX.NO:3

Ayomi wants a program that will calculate the number of fence panels required to surround building sites such as the one shown in the diagram (not to scale).

Each building site is a rectangle.

Each fence panel is 1 meter long.

A gap of 4 meters is needed to access each site. The location of the gap is not significant.

The user will input the length and width of the building site as whole numbers of meters.

The program will output the minimum number of full panels needed.

EX.NO:4

Write a program to read an amount in Rial and determine the least number of currency notes to be used for transaction of the amount. Assume that you have the currency notes of denominations RO50, RO20, RO10, RO5 and RO1. If OMR 478 is the amount then the least number of currency notes to be used is

RO 50 - 9

RO 20 - 1

RO 5 - 1

RO 1 - 3