INDIAN SCHOOL AL WADI AL KABIR

Worksheet, 2022-23

|  |  |  |
| --- | --- | --- |
| **Class: XI** | **SUB: INFORMATICS PRACTICES** | **Date of Submission: 08/08/2022** |
| **Worksheet No:1** | **TOPIC: Python – Basic Programs** | **Note: Holiday Home Work** |

**Q.I Develop a Python program:**

1. Write a program to convert distance in Meters to Kilometer and Meter.

Hint: If Input Meters = 7840, then output = 7 KM and 840 M

1 KM = 1000 Meters

1. Write a program to calculate and Compound Interests.

A = P x (1+R/100)t

Compound Interest = A – Principal Amount

P – Principal Amount A – Amount R – Rate T – Time Span

1. Write a program to calculate the Square root of the given number.
2. Write a program to calculate the solutions for a Quadratic Equation.

d = b2 – 4 x a x c

Root1 = - b + Sqrt(d) / ( 2 x a)

Root2 = - b - Sqrt(d) / ( 2 x a)

1. Write a program to convert Kilometers into Miles.

Miles = Kilometers \* 0.621371

1. Write a program to calculate Celsius to Fahrenheit.

Fahrenheit = (Celsius x 1.8) + 32

1. Write a program to swap two numbers using temporary variable.
2. Write a program to swap two numbers without using temporary variable.

**Note : Write the answers in your Informatics Practices Theory Note Book and submit to your Informatics Practices Teacher on or before 08/08/2022.**