**Programming Assignment 2**

Q.1) Write a Python program to convert kilometers to miles?

Ans.)

km = 6

miles = km/1.60934

print("For {}km equivalent distance in miles = {}".format(km, miles))

Q.2) Write a Python program to convert Celsius to Fahrenheit?

Ans.)

c = 35

f = (9\*c/5)+32

print("For Celsius = {} equivalent Fahrenheit = {}".format(c, f))

Q.3) Write a Python program to display calendar?

Ans.)

Import calender

year = 2021

month = 12

print(calendar.month(year, month))

year = 2022

print(calendar.calendar(year))

Q.4) Write a Python program to solve quadratic equation?

Ans.)

import math

print("ax^2 + bx^1 + c = 0")

print("Enter the coeff a, b and constant c")

a = int(input(("Enter the coeff a: ")))

b = int(input(("Enter the coeff b: ")))

c = int(input(("Enter the constant c: ")))

d = (b\*\*2) - (4\*a\*c)

root1 = ((-1\*b)+(math.sqrt(d))) / (2\*a)

root2 = ((-1\*b)-(math.sqrt(d))) / (2\*a)

print('\nFor quad eq. {}x^2 + ({})x^1 + {}'.format(a,b,c))

print('The solutions are: {} and {}'.format(root1, root2))

Q.5) Write a Python program to swap two variables without temp variable?

Ans.)

var1 = 6

var2 = 4

print('Before swap:\nvar1 = {} and var2 = {}'.format(var1, var2))

var2 = var1 + var2

var1 = var2 - var1

var2 = var2 - var1

print('\nAfter swap:\nvar1 = {} and var2 = {}'.format(var1, var2))