## **Assignment 2 Solutions**

### 1. Write a Python program to convert kilometers to miles?

```
In [1]:
```

```
def kmToMiles():
    kiloMeters = float(input("Enter no of kilometers : "))
    print("{} km is Equal to {} miles".format(kiloMeters,kiloMeters*0.621))

kmToMiles()
```

Enter no of kilometers : 40 40.0 km is Equal to 24.84 miles

#### 2. Write a Python program to convert Celsius to Fahrenheit?

#### In [2]:

```
def celToFarh():
    celsius = int(input("Enter temperature in celsius : "))
    Farenheit = (celsius*(9/5))+32
    print("{}° Celsius is Equal to {}° Farenheit".format(celsius,Farenheit))
    celToFarh()
```

Enter temperature in celsius : 26 26° Celsius is Equal to 78.8000000000001° Farenheit

## 3. Write a Python program to display calendar?

```
In [3]:
```

```
import calendar

def showCalender():
    year = int(input("Enter calender year: "))
    print(calendar.calendar(year))

showCalender()
```

Enter calender year: 2022

2022

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## 4. Write a Python program to solve quadartic equation?

#### In [5]:

```
import math
a = 2
b = 4
c = 1

d = b**2 - (4*a*c)
print("Descriminant : ",d)

sol1 = (-b - math.sqrt(d))/(2*a)
sol2 = b - (math.sqrt(d))/(2*a)

print("Sol1 : ",sol1)
print("Sol2 : ",sol2)
```

Descriminant: 8

Sol1: -1.7071067811865475 Sol2: 3.2928932188134525

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

#### In [4]:

```
1  x = int(input("Num1 : "))
2  y = int(input("Num2 : "))
3  print("Before swaping x = {}, y = {}".format(x,y))
4  #swaping :)
5  y,x = x,y
6  print("After swaping x = {}, y = {}".format(x,y))
```

Num1 : 23
Num2 : 53
Before swaping x = 23, y = 53
After swaping x = 53, y = 23