

# Assignment 2 Solutions

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

In [1]:

```
1 def kmToMiles():
2     kiloMeters = float(input("Enter no of kilometers : "))
3     print("{} km is Equal to {} miles".format(kiloMeters,kiloMeters*0.621))
4
5 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]:

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

Enter temperature in celsius : 26  
26° Celsius is Equal to 78.80000000000001° Farenheit

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

In [3]:

```

1 import calendar
2
3 def showCalender():
4     year = int(input("Enter calender year: "))
5     print(calendar.calendar(year))
6
7 showCalender()

```

Enter calender year: 2022

2022

January							February							March						
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su
					1	2		1	2	3	4	5	6		1	2	3	4	5	6
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27
24	25	26	27	28	29	30	28							28	29	30	31			
31																				

  

April							May							June						
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su
					1	2	3						1		1	2	3	4	5	
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30			
							30	31												

  

July							August							September							
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	
					1	2	3	1	2	3	4	5	6	7				1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11	
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18	
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25	
25	26	27	28	29	30	31	29	30	31					26	27	28	29	30			

  

October							November							December						
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su
					1	2		1	2	3	4	5	6				1	2	3	4
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31	
31																				

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

In [5]:

```
1 import math
2 a = 2
3 b = 4
4 c = 1
5
6 d = b**2 - (4*a*c)
7 print("Discriminant : ",d)
8
9 sol1 = (-b - math.sqrt(d))/(2*a)
10 sol2 = b - (math.sqrt(d))/(2*a)
11
12 print("Sol1 : ",sol1)
13 print("Sol2 : ",sol2)
```

Discriminant : 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