

# Programming Assignment\_2

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

In [5]:

```
1 def kilometre_1(km):
2     conversion_ratio_1= 0.621371
3     miles_1 = km * conversion_ratio_1
4     print ("The speed value of car in Miles: ", round(miles_1))
5 km = float (input ("Please enter the speed of car in Kilometre as a unit: "))
6 kilometre_1(km)
```

Please enter the speed of car in Kilometre as a unit: 65  
The speed value of car in Miles: 40

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

In [1]:

```
1 celsius = 37.5
2
3 # calculate fahrenheit
4 fahrenheit = (celsius * 1.8) + 32
5 print('%0.1f degree Celsius is equal to %0.1f degree Fahrenheit' %(celsius,fahrenheit))
```

37.5 degree Celsius is equal to 99.5 degree Fahrenheit

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

In [6]:

```
1 import calendar
2 year = 2018
3 month = 12
4 print(calendar.month(year, month))
```

December 2018  
Mo Tu We Th Fr Sa Su  
          1 2  
3 4 5 6 7 8 9  
10 11 12 13 14 15 16  
17 18 19 20 21 22 23  
24 25 26 27 28 29 30  
31

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

In [9]:

```
1 import math
2 x = 1
3 y = 5
4 z = 6
5
6 # calculate the discriminant
7 w = (y**2) - (4*x*z)
8
9 # find two solutions
10 sol1 = (-y-math.sqrt(w))/(2*x)
11 sol2 = (-y+math.sqrt(w))/(2*x)
12 print('The solution are {0} and {1}'.format(sol1,sol2))
```

The solution are -3.0 and -2.0

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

In [10]:

```
1 num1 = int (input ("Enter the first number: "))
2 num2 = int (input ("Enter the second number: "))
3
4 #Print original number
5 print ("Before swapping")
6 print ("First number is : ", num1)
7 print ("The Second number is : ", num2)
8
9 #Swapping without using temporary variable
10 num1 = num1 + num2
11 num2 = num1 - num2
12 num1 = num1 - num2
13
14 #Print Swapped number
15 print ("After swapping")
16 print ("First number is : ", num1)
17 print ("The Second number is : ", num2)
```

Enter the first number: 21  
Enter the second number: 34  
Before swapping  
First number is : 21  
The Second number is : 34  
After swapping  
First number is : 34  
The Second number is : 21

In [ ]:

```
1
```