

Que:-1 Write a Python program to convert Kilometers to Miles ?

```
In [1]: 1 #Solution:-  
2  
3 def km_to_Miles():  
4     km =int(input("Enter number of kilometer :- "))  
5     print("{} km is Equal to {} miles".format(km,km*0.621))  
6  
7 km_to_Miles()
```

```
Enter number of kilometer :- 5  
5 km is Equal to 3.105 miles
```

Que:-2 Write a Python program to convert Celsius to Farenheit ?

```
In [2]: 1 #Solution:-  
2  
3 def cel_to_Farh():  
4     celsius = int(input("Enter temperature in celsius :- "))  
5     Farenheit = (celsius*(9/5))+32  
6     print("{} Celsius is Equal to {} Farenheit".format(celsius,Farenheit))  
7  
8 cel_to_Farh()
```

```
Enter temperature in celsius :- 35  
35 Celsius is Equal to 95.0 Farenheit
```

Que:-3 Write a Python program to display calender ?

```
In [3]: 1 #Solution:-  
2  
3 import calendar  
4  
5 year = int(input("Enter year :- "))  
6 month = int(input("Enter month in number :-"))  
7 print(calendar.month(year,month))
```

Enter year :- 2022

Enter month in number :-12

December 2022

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

Que:-4 Write a Python program to solve quadartic equation ?

In [6]:

```
1  #Solution:-
2
3  import cmath
4  import math
5
6  def quadartic_Equation_Roots(a,b,c):
7
8      discriminant = (b**2)-(4*a*c)
9
10     if discriminant == 0:
11         root1 = -b/2*a
12         root2 = -b/2*a
13         print("Roots are Real",root1,root2)
14     elif discriminant > 0:
15         root1 = (-b-math.sqrt(discriminant))/(2 * a)
16         root2 = (-b+math.sqrt(discriminant))/(2 * a)
17         print("Roots are Real and different",root1,root2)
18     else:
19         root1 = (-b-cmath.sqrt(discriminant))/(2 * a)
20         root2 = (-b+cmath.sqrt(discriminant))/(2 * a)
21         print("Roots are Imaginary",root1,root2)
22
23
24 a = int(input('Enter a value: '))
25 b = int(input('Enter b value: '))
26 c = int(input('Enter c value: '))
27
28 quadartic_Equation_Roots(a,b,c)
```

Enter a value: 1

Enter b value: 6

Enter c value: 3

Roots are Real and different -5.449489742783178 -0.5505102572168221

Que:-5 Write a Python program to swap two variables without temp variable ?

In [7]:

```
1  #Solution:-
2  num_1 = int(input('Enter first number:- '))
3  num_2 = int(input('Enter second number:- '))
4
5
6  def swapNumbers(num_1,num_2):
7      print('Before Swapping', num_1,num_2)
8      num_1,num_2 = num_2,num_1
9      print('After Swapping', num_1,num_2)
10
11 swapNumbers(num_1,num_2)
12
```

```
Enter first number:- 5
Enter second number:- 15
Before Swapping 5 15
After Swapping 15 5
```