

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

Ans:

```
: def km_to_miles(a):
    conv_fac = 0.621371
    miles = a * conv_fac
    print('%0.2f kilometers is equal to %0.2f miles' %(a,miles))
    distance = float(input("Enter the distance:"))
    km_to_miles(distance)

Enter the distance:5.6
5.60 kilometers is equal to 3.48 miles
```

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

Ans:

```
3]: def celsius_to_fahrenheit(celsius):
    fahrenheit = (celsius*1.8)+32
    print("Temperature in fahrenheit is:",fahrenheit)
    temprature = float(input("Enter the temperature in celcius: "))
    celsius_to_fahrenheit(temprature)

Enter the temperature in celcius: 32
Temperature in fahrenheit is: 89.6
```

3. Write a Python program to display calendar?

Ans:

```
3]: import calendar
yy = int(input("Enter year: "))
mm = int(input("Enter month: "))
print(calendar.month(yy, mm))

Enter year: 2021
Enter month: 5
May 2021
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?

Ans:

```
1: # The quadratic equation is ax**2 + bx + c = 0
import cmath

a = 1
b = 5
c = 4

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

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

print('The solution are {0} and {1}'.format(sol1,sol2))

The solution are (-4+0j) and (-1+0j)
```

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

Ans:

```
1]: a = int(input("Enter first number: "))  
    b = int(input("Enter second number: "))  
    print("Before swapping values of a and b are : {0} and {1}".format(a,b))  
    a,b = b,a  
    print("After swapping values of a and b are : {0} and {1}".format(a,b))
```

```
Enter first number: 5  
Enter second number: 6  
Before swapping values of a and b are : 5 and 6  
After swapping values of a and b are : 6 and 5
```