Programming Assignment_2

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

```
In [1]: kilo_meter = 5.0
        conversion_ratio = 0.621371
        miles = kilo_meter * conversion_ratio
        print("The speed value in Miles:\n", miles)
```

```
The speed value in Miles:
 3.106855
```

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

```
In [2]: celsius = 37.5
        fahrenheit = (celsius * 1.8) + 32
        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
```

1. Write a Python program to display calendar?

```
In [3]: import calendar

        yy = 2023
        mm = 4

        # display the calendar
        print(calendar.month(yy, mm))
```

```
     April 2023
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
```

4. Write a Python program to solve quadratic equation?

```
In [18]: import cmath

         a = 1
         b = 5
         c = 6
         d = (b**2) - (4*a*c)

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

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

```
The solution are (-3+0j) and (-2+0j)
```

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

```
In [4]:  num1 = 10
         num2 = 20
         print("Before Swapping")
         print(f'num1 : {num1} and num2 = {num2}')
         num1 = num1 + num2
         num2 = num1 - num2
         num1 = num1 - num2
         print("After Swapping")
         print(f'num1 : {num1} and num2 = {num2}')
```

```
Before Swapping
num1 : 10 and num2 = 20
After Swapping
num1 : 20 and num2 = 10
```

```
In [ ]:
```