Python Basics Assignment 2

Q1. Write a Python program to convert kilometers to miles?

```
In [3]: #function for kilometers to mile calculation
def kilos_to_miles(kilo):
    return kilo * 0.62

#Distance input
dist_kilo= int(input("Input Distance in kilometers"))
print("Distance covered in miles", kilos_to_miles(dist_kilo))
```

Input Distance in kilometers150 Distance covered in miles 93.0

Q2. Write a Python program to convert Celsius to Fahrenheit?

```
In [4]: #function for celsius to Fahrenheit calculation
    def cel_to_fah(cel):
        return (cel * (9/5))+32

#Distance input
    temp_cel= int(input("Input Temperature in Celsius"))

print("Temperature in Fahrenheit", cel_to_fah(temp_cel))
```

Input Temperature in Celsius73
Temperature in Fahrenheit 163.4

Q3. Write a Python program to display calendar?

Q4. Write a Python program to solve quadratic equation?

```
In [12]: #considering formula ax**2+bx+c
import cmath

a=int(input("Enter value of a for equation ax**2+bx+c"))
b=int(input("Enter value of b for equation ax**2+bx+c"))
c=int(input("Enter value of c for equation ax**2+bx+c"))
```

```
def solution(a,b,c):
    d= (b**2) - (4*a*c)
    sol1 = (-b-cmath.sqrt(d))/(2*a)
    sol2 = (-b+cmath.sqrt(d))/(2*a)
    return sol1,sol2

sol1,sol2=solution(a,b,c)
    print("Sultion of Quadratic Equation {0}x**2+{1}x+{2} is {3} and {4}".format(a,b,c,sol1)

Enter value of a for equation ax**2+bx+c45
Enter value of b for equation ax**2+bx+c12
Enter value of c for equation ax**2+bx+c3
Sultion of Quadratic Equation 45x**2+12x+3 is (-0.133333333333333333-0.22110831935702666)
```

Q5. Write a Python program to swap two variables without temp variable?

j) and (-0.133333333333333+0.22110831935702666j)