Programming Assignment_2

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

Ans

```
kilometre_1 = float (input ("Please enter the speed of car in Kilometre as a unit: "))

conversion_ratio_1 = 0.621371
miles_1 = kilometre_1 * conversion_ratio_1
print ("The speed value of car in Miles: ", miles_1)
```

Output:

```
Please enter the speed of car in Kilometre as a unit:  16
The speed value of car in Miles:  9.941936
```

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

```
celsius_1 = float(input("Temperature value in degree Celsius: " ))

# For Converting the temperature to degree Fahrenheit by using the above
# given formula
Fahrenheit_1 = (celsius_1 * 1.8) + 32

# print the result
print('The %.2f degree Celsius is equal to: %.2f Fahrenheit'
      %(celsius_1, Fahrenheit_1))
```

Output:

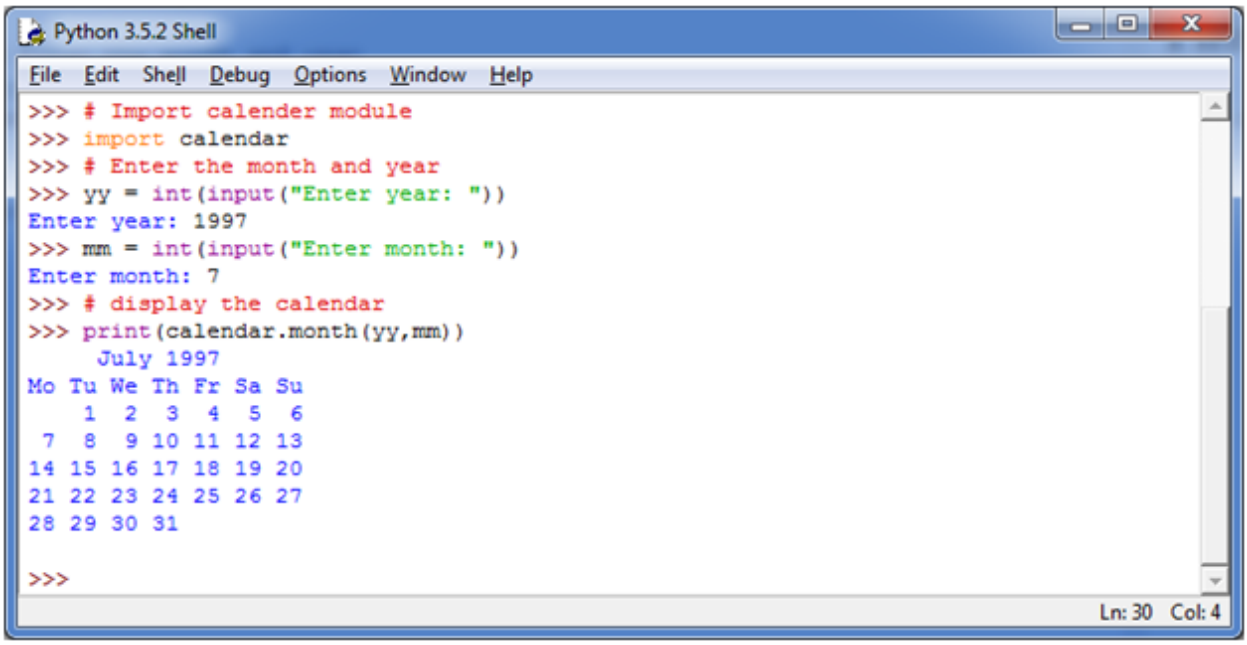
```
Temperature value in degree Celsius:  34
The 34.00 degree Celsius is equal to: 93.20 Fahrenheit
```

3. Write a Python program to display calendar?

Ans

```
import calendar
```

```
2. # Enter the month and year
3. yy = int(input("Enter year: "))
4. mm = int(input("Enter month: "))
5.
6. # display the calendar
7. print(calendar.month(yy,mm))
```



4. Write a Python program to solve quadratic equation

```
1. import cmath
2. a = float(input('Enter a: '))
3. b = float(input('Enter b: '))
4. c = float(input('Enter c: '))
5.
6. # calculate the discriminant
7. d = (b**2) - (4*a*c)
8.
9. # find two solutions
10.sol1 = (-b-cmath.sqrt(d))/(2*a)
11.sol2 = (-b+cmath.sqrt(d))/(2*a)
```

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

Output:

```
Enter a: 8
Enter b: 5
Enter c: 9
The solution are (-0.3125-1.0135796712641785j) and (-0.3125+1.0135796712641785j)
```

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

```
x = 5

y = 7



print ("Before swapping: ")

print("Value of x : ", x, " and y : ", y)



# code to swap 'x' and 'y'

x, y = y, x



print ("After swapping: ")

print("Value of x : ", x, " and y : ", y)
```

Output:

Before swapping:

Value of x : 5 and y : 7

After swapping:

Value of x : 7 and y : 5