

## 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?

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

```
2.
```

```
3. # For Converting the temperature to degree Fahrenheit by using the above
```

```
4. # given formula
```

```
5. Fahrenheit_1 = (celsius_1 * 1.8) + 32
```

```
6.
```

```
7. # print the result
```

```
8. print('The %.2f degree Celsius is equal to: %.2f Fahrenheit'
```

```
9.      %(celsius_1, Fahrenheit_1))
```

Output:

Temperature value in degree Celsius: 34

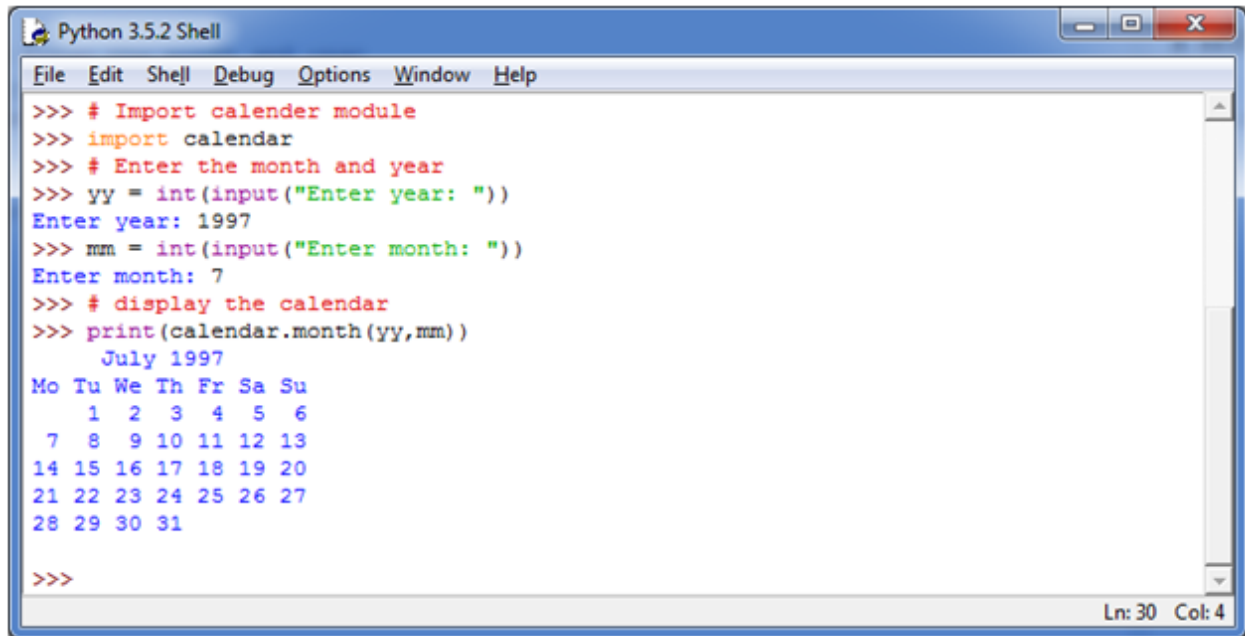
The 34.00 degree Celsius is equal to: 93.20 Fahrenheit

3. Write a Python program to display calendar?

Ans

```
1. 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))`



The screenshot shows a Python 3.5.2 Shell window with the following code and output:

```
>>> # Import calender module
>>> import calendar
>>> # Enter the month and year
>>> yy = int(input("Enter year: "))
Enter year: 1997
>>> mm = int(input("Enter month: "))
Enter month: 7
>>> # display the calendar
>>> print(calendar.month(yy,mm))
    July 1997
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
>>>
```

The status bar at the bottom right indicates "Ln: 30 Col: 4".

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