

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

Ans:

```
In [20]: 1 km = float(input('Enter distance in kilometers: '))
2 miles = round(0.6214*km,2)
3 print('Distance in miles: ', miles)
```

```
Enter distance in kilometers: 34
Distance in miles: 21.13
```

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

Ans:

```
In [21]: 1 C = float(input('Enter temperature in celcius: '))
2 F = round(32+C*9/5,2)
3 print('Temerature in Farhenheit: ', F)
```

```
Enter temperature in celcius: 23
Temperature in Farhenheit: 73.4
```

3. Write a Python program to display calendar?

Ans:

```
In [25]: 1 import calendar
2 yy = int(input('Enter year:'))
3 print(calendar.calendar(yy))
```

Enter year:2022

```

                2022

January          February          March
Mo Tu We Th Fr Sa Su  Mo Tu We Th Fr Sa Su  Mo Tu We Th Fr Sa Su
1 2 3             1 2 3 4 5 6       1 2 3 4 5
3 4 5 6 7 8 9     7 8 9 10 11 12 13  7 8 9 10 11 12 13
10 11 12 13 14 15 16 14 15 16 17 18 19 20  14 15 16 17 18 19 20
17 18 19 20 21 22 23  21 22 23 24 25 26 27  21 22 23 24 25 26 27
24 25 26 27 28 29 30  28                28 29 30 31
31

April            May              June
Mo Tu We Th Fr Sa Su  Mo Tu We Th Fr Sa Su  Mo Tu We Th Fr Sa Su
1 2 3                 1              1 2 3 4 5
4 5 6 7 8 9 10       2 3 4 5 6 7 8    6 7 8 9 10 11 12
11 12 13 14 15 16 17  9 10 11 12 13 14 15 13 14 15 16 17 18 19
18 19 20 21 22 23 24 16 17 18 19 20 21 22 20 21 22 23 24 25 26
25 26 27 28 29 30     23 24 25 26 27 28 29 27 28 29 30
31 30 31

July             August           September
Mo Tu We Th Fr Sa Su  Mo Tu We Th Fr Sa Su  Mo Tu We Th Fr Sa Su
1 2 3                 1 2 3 4 5 6 7       1 2 3 4
4 5 6 7 8 9 10       8 9 10 11 12 13 14  5 6 7 8 9 10 11
11 12 13 14 15 16 17 15 16 17 18 19 20 21 12 13 14 15 16 17 18
18 19 20 21 22 23 24 22 23 24 25 26 27 28 19 20 21 22 23 24 25
25 26 27 28 29 30 31 29 30 31          26 27 28 29 30

October          November         December
Mo Tu We Th Fr Sa Su  Mo Tu We Th Fr Sa Su  Mo Tu We Th Fr Sa Su
1 2                 1 2 3 4 5 6       1 2 3 4
3 4 5 6 7 8 9       7 8 9 10 11 12 13  5 6 7 8 9 10 11
10 11 12 13 14 15 16 14 15 16 17 18 19 20 12 13 14 15 16 17 18
17 18 19 20 21 22 23  21 22 23 24 25 26 27 19 20 21 22 23 24 25
24 25 26 27 28 29 30 28 29 30       26 27 28 29 30 31
31
```

4. Write a Python program to solve quadratic equation?

Ans:

```
In [39]: 1 import cmath
2 a = int(input('Enter coefficient of x^2: '))
3 b = int(input('Enter coefficient of x: '))
4 c = int(input('Enter constant: '))
5 def solution(a,b,c):
6     if b*b - 4*a*c == 0:
7         x1 = -b/2*a
8         x2 = -b/2*a
9         print('Solutions of the equation are: ',x1, x2)
10    else:
11        x1 = (-b + cmath.sqrt(b*b - 4*a*c)) / (2*a)
12        x2 = (-b - cmath.sqrt(b*b - 4*a*c)) / (2*a)
13        print('Soltuions of the equation is: ',x1, x2)
14    solution(a,b,c)
```

```
Enter coefficient of x^2: 1
Enter coefficient of x: -2
Enter constant: 1
Solutions of the equation are: 1.0 1.0
```

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

Ans:

```
In [2]: 1 x = int(input('enter 1st number: '))
2 y = int(input('enter 2nd number: '))
3 x, y = y, x
4 print('swapping!')
5 print('1st number', x, '2nd number', y)
```

```
enter 1st number: 15
enter 2nd number: 17
swapping!
1st number 17 2nd number 15
```