

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

```
km = int(input("Enter kms"))
num = 0.621371
miles = num*km
print("the km in miles ", miles)
```

```
Enter kms3
the km in miles  1.8641130000000001
```

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

```
Celsius = int(input("Enter Celsius"))
fahrenheit = (Celsius * 1.8) + 32
print("The celsius is ", fahrenheit)
```

```
Enter Celsius5
The celsius is  41.0
```

3. Write a Python program to display calendar?

```
import calendar
yy = int(input())
mm = int(input())
print(calendar.month(yy, mm))
```

```
2023
6
      June 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?

```
a = int(input("Enter the coefficients of a: "))
b = int(input("Enter the coefficients of b: "))
c = int(input("Enter the coefficients of c: "))

d = b**2-4*a*c # discriminant

if d < 0:
    print ("This equation has no real solution")
elif d == 0:
    x = (-b+math.sqrt(b**2-4*a*c))/2*a
    print ("This equation has one solutions: ", x)
else:
    x1 = (-b+math.sqrt((b**2)-(4*(a*c))))/(2*a)
    x2 = (-b-math.sqrt((b**2)-(4*(a*c))))/(2*a)
    print ("This equation has two solutions: ", x1, " or", x2)
```

```
Enter the coefficients of a: 2
Enter the coefficients of b: 3
Enter the coefficients of c: 4
This equation has no real solution
```

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

```
a = int(input())
b = int(input())

# Using arithmetic
a = a + b
b = a - b
a = a - b

print("After swapping: a =", a, "b =", b)
```

10

20

After swapping: a = 20 b = 10