

Python program2

```
1) def km_mile(a):  
a=float(input("enter a value"))  
print(0.621371*a)
```

```
km_mile(749)
```

465.406879

```
2) def cel_farenhit(a):  
a=float(input("enter a value"))  
print((1.8*a)+32)  
cel_farenhit(34)
```

93.2

```
3) import calendar  
def showCalender():  
year = int(input("Enter calender year: "))  
print(calendar.calendar(year))  
showCalender()
```

```
4) import cmath  
import math  
def quadarticEquationRoots(a,b,c):  
  
    discriminant = b*b-4*a*c  
  
    if discriminant == 0:  
        r1 = -b/2*a  
        r2 = -b/2*a  
        print("Roots are Real",r1,r2)  
    elif discriminant > 0:  
        r1 = (-b-math.sqrt(discriminant))/(2 * a)  
        r2 = (-b+math.sqrt(discriminant))/(2 * a)  
        print("Roots are Real and different",r1,r2)  
    else:  
        r1 = (-b-cmath.sqrt(discriminant))/(2 * a)  
        r2 = (-b+cmath.sqrt(discriminant))/(2 * a)  
        print("Roots are Imaginary",r1,r2)  
a = int(input('Enter a value: '))  
b = int(input('Enter b value: '))  
c = int(input('Enter c value: '))  
quadarticEquationRoots(a,b,c)
```

Enter a value: 4

Enter b value: 5

Enter c value: 6

Roots are Imaginary (-0.625-1.0532687216470449j) (-0.625+1.0532687216470449j)

```
5) num_1 = int(input('Enter first number: '))  
num_2 = int(input('Enter second number: '))  
def swapNumbers(num_1,num_2):  
print('Before Swapping',num_1,num_2)  
num_1 = num_1+num_2  
num_2 = num_1-num_2  
num_1 = num_1-num_2
```

```
print('before Swapping', num_1, num_2)  
swapNumbers(num_1, num_2)
```

Enter first number: 7
Enter second number: 5
Before Swapping 7 5
before Swapping 5 7