```
# sum of two nos
num1 = int(input("Enter first no"))
num2 = int(input("Enter second no"))

# Adding the two numbers
sum = num1 + num2

# Display the sum
print('The sum of {0} and {1} is {2}'.format(num1, num2, sum))
```

```
Enter first no5
Enter second no10
The sum of 5 and 10 is 15
```

```
# To get year (integer input) from the user
year = int(input("Enter a year: "))

if ((year % 4) == 0 and (year % 100)  != 0) or ((year % 400) == 0):
           print("{0} is a leap year".format(year))
else:
           print("{0} is not a leap year".format(year))
```

```
Enter a year: 2012
2012 is a leap year
```

```
# Program to generate a random number between 0 and 9
# import the random module
import random
print(random.randint(0,9))
```

```
8
```

```
# To take kilometers from the user, uncomment the code below
kilometers = int(input("Enter value in kilometers"))

# conversion factor
conv_fac = 0.621371

# calculate miles
miles = kilometers * conv_fac
print('%0.3f kilometers is equal to %0.3f miles' %(kilometers,miles))
```

```
Enter value in kilometers12
12.000 kilometers is equal to 7.456 miles
```

```
# Solve the quadratic equation ax**2 + bx + c = 0
# importing  complex math module
import cmath

 # To take coefficient input from the users
a = float(input('Enter a: '))
```

```
b = float(input('Enter b: '))
c = float(input('Enter c: '))

# calculate the discriminant
d = (b**2) - (4*a*c)

# find two solutions
sol1 = (-b-cmath.sqrt(d))/(2*a)
sol2 = (-b+cmath.sqrt(d))/(2*a)

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

```
Enter a: 4
Enter b: 5
Enter c: 2
The solution are (-0.625-0.33071891388307384j) and (-0.625+0.33071891388307384j)
```

```
def test_prime(n):
    if (n==1):
        return False
    elif (n==2):
        return True;
    else:
        for x in range(2,n):
            if(n % x==0):
                return False
        return True
no=int(input("Enter the number"))
if (test_prime(no)) is True :
    print(" {0} is a prime no".format(no))
else:
     print(" {0} is not a prime no".format(no))
```

```
Enter the number5
 5 is a prime no
```