

```
In [13]: from numpy import sqrt

a = int(input("Enter first number "))
b = int(input("Enter second number"))

print("addition = ",(a+b))
print("subtraction = ",(a-b))
print("multiplication= ",(a*b))
print("division = ",(a/b))
print("another division = ",(a//b))
print("remainder = ",(a%b))
print("power= ",(a**b))
print("SQUARE ROOT = ",(a**0.5))
print(sqrt(a))
```

```
addition = 18
subtraction = 14
multiplication= 32
division = 8.0
another division = 8
remainder = 0
power= 256
SQUARE ROOT = 4.0
4.0
```

```
In [65]: def calculate_triangle_area(s1,s2,s3):
    s = s1+s2+s3
    area = (s*(s-s1)*(s-s2)*(s-s3))**0.5
    return area

s1 = float(input("Enter first side: (in cm)"))
s2 = float(input("Enter second side : (in cm)"))
s3 = float(input("Enter third side: (in cm)"))
area = calculate_triangle_area(s1, s2,s3)
print(f"The area of the triangle is: {area} sq.cm")
```

The area of the triangle is: 2205.4931421339766 sq.cm

```
In [73]: import cmath

def solve_quadratic(a, b, c):

    discriminant = (b ** 2) - (4 * a * c)
    root1 = (-b + cmath.sqrt(discriminant)) / (2 * a)
    root2 = (-b - cmath.sqrt(discriminant)) / (2 * a)
    return root1, root2

a = float(input("Enter coefficient a: "))
b = float(input("Enter coefficient b: "))
c = float(input("Enter coefficient c: "))
roots = solve_quadratic(a, b, c)
print(f"The roots of the quadratic equation are: {roots[0]} and {roots[1]}")
```

The roots of the quadratic equation are: $(-0.45141622964513645+0j)$ and $(-2.2152504370215302+0j)$

```
In [95]: c = int(input("Enter temperture in celcius "))
         f = (c*1.8) + 32
         print(f)
```

132.8

```
In [105... a = int(input("Enter a number"))
           if a%2 == 0:
               print("EVEN")
           else:
               print("odd")
```

EVEN

```
In [119... a = int(input("Enter first number "))
           b = int(input("Enter 2nd number "))
           c = int(input("Enter 3rd number "))

           if( a > b and a > c ):
               print(a)
           if( b > a and b > c ):
               print(b)
           if( c > b and c > a ):
               print(c)
```

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```
In [125... a = int(input("Enter a number "))

           if(a < 0 ):
               print("negative")
           elif (a > 0):
               print("positive")
           else:
               print("zero")
```

positive

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In [ ]:
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