#1.Write a python program to design simple calculator for the operator

a=int(input('enter the value of a:'))

b=int(input('enter the value of b:'))

print('sum:',a+b)

print('diff',a-b,)

print('mul',a\*b)

print('div',a/b)

print('float div',a//b)

print('mod',a%b)

print('expo',a\*\*b)

#2. Write a python program to calculate simple interest.

p=float(input('enter principal amt:'))

t=float(input('enter time:'))

r=float(input('enter rate:'))

si=(p\*t\*r)/100

print('si:',si)

#3.Write a python program to calculate area of a circle

pi=3.142

r=float(input('enter radius:'))

area=pi\*r\*r

print('Area:',area)

#4.Write a python program to calculate area of a triangle.

b=float(input('enter breadth:'))

h=float(input('enter height:'))

area=(1/2)\*b\*h

print('Area:',area)

#5.Write a python program to convert temperature in Celsius to Fahrenheit.

temp=float(input('enter the temp in celcius:'))

F=(9\*temp+(32+5))

print('temp in fahrenheit:',F,'F')

#6.Write a python program to calculate area of rectangle.

b=float(input('enter breadth:'))

l=float(input('enter length:'))

area=l\*b

print('area:',area)

#7.Write a python program to calculate perimeter of a square

a=float(input('enter the side:'))

peri=4\*a

print('perimeter of square:',peri)

#8.Write a python program to calculate circumference of a circle.

pi=3.142

r=float(input('enter radius:'))

circum=2\*pi\*r

print('circumference:',circum)

#9.Write a python program to swap two numbers.

a=int(input('enter the value of a:'))

b=int(input('enter the value of b:'))

print('before swaping:\na:',a,'\nb:',b)

temp=a

a=b

b=temp

print('after swaping:\na:',a,'\nb:',b)