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

a=int(input('enter val1:'))

b=int(input('enter val2:'))

op=input('enter operator')

if op == '+':

print(a+b)

elif op == '-':

print(a-b)

elif op == '\*':

print(a\*b)

elif op == '/':

print(a/b)

elif op == '%':

print(a%b)

elif op == '\*\*':

print(a\*\*b)

elif op == '//':

print(a//b)

else:

print('enter valid operator')

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

p=int(input('enter principle:'))

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

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

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

print('simple interest:',si)

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

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

pi=3.14

print('Area of circle:',(pi\*r\*\*2))

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

b=int(input('enter base:'))

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

print('Area of triangle',0.5\*b\*h)

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

c=int(input('enter temparature in celsius:'))

print('temparuture in fahrenheit=',((c\*9/5)+32),'F')

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

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

b=int(input('enter breath:'))

print('Area of rectangle=', l\*b)

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

s=int(input('enter side:'))

print('Perimeter of square:',4\*s)

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

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

pi=3.14

print('Circumference of circle:',2\*pi\*r)

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

a=int(input('enter val1:'))

b=int(input('enter val2:'))

print('Before swapping a=',a,'b=',b)

a=a+b

b=a-b

a=a-b

print('After swapping a=',a,'b=',b)