#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)
```